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(54) Title: SEQUENCES CHARACTERISTIC OF HUMAN GENE TRANSCRIPTION PRODUCT (57) Abstract Partial and complete human cDNA and genomic sequences corresponding to particular expressed sequence tags (ESTs). The ESTs are cDNA sequences that are generally between 150 and 500 base pairs in length, are derived from human brain cDNA libraries, correspond to genes transcribed in human brain, and have base sequences identified herein as SEQ ID NOS: 1-2421.		

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**SEQUENCES CHARACTERISTIC OF HUMAN GENE TRANSCRIPTION
PRODUCT**

5

Technical Field

The present invention relates to newly identified polynucleotide sequences corresponding to transcription products of human genes, and to complete gene sequences associated therewith.

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Background

This invention relates to human genes. Identification and sequencing of human genes is a major goal of modern scientific research. The sequence of human genes is more than just a scientific curiosity. For example, by identifying genes and determining their sequences, scientists have been able to make large quantities of valuable human "gene products." These include human insulin, interferon, Factor VIII, tumor necrosis factor, human growth hormone, tissue plasminogen activator, and numerous other compounds. Additionally, knowledge of gene sequences can provide the key to treatment or cure of genetic diseases (such as muscular dystrophy and cystic fibrosis). The present invention represents a quantum leap forward in mankind's knowledge of human gene sequences.

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There are several basic concepts of molecular biology which figure prominently in the invention. A brief explanation of those concepts follows. Additional background information and definitions for scientific terms can be found

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in the literature. See, for example, "Glossary of Genetics, Classical and Molecular" by R. Rieger, A. Michaelis, and M.M. Green (Fifth Edition, Springer-Verlag, New York (1991)). The contents of this and other publications cited in the
5 specification are incorporated by reference herein.

At an initial level, the present invention is based on identification and characterization of gene segments. Genes are the basic units of inheritance. Each gene is a string of connected bases called nucleotides. Most genes are formed of
10 deoxyribonucleic acid, DNA. (Some viruses contain genes of ribonucleic acid, RNA.) The genetic information resides in the particular sequence in which the bases are arranged. A short sequence of nucleotides is often called a polynucleotide or an oligonucleotide.

Like genes, polypeptides are built from long strings of individual units. These units are amino acids. The nucleotide sequence of a gene tells the cell the sequence in which to arrange the amino acids to make the polypeptide encoded by that gene. In general, chains of up to about 200
20 amino acids are called polypeptides, while proteins are larger molecules made up of polypeptide subunits; both types of molecules are referred to generally herein as polypeptides. A triplet of nucleotides (codon) in DNA codes for each amino acid or signals the beginning or end of the message (anticodon). The term codon is also used for the
25 corresponding (and complementary) sequences of three nucleotides in the mRNA into which the original DNA sequence is transcribed.

Generally, enzymes in the cell transcribe the permanent
30 DNA of the gene into a temporary RNA copy, called messenger RNA or mRNA. The mRNA, in turn, can be translated into a polypeptide by the cell. This entire process is called gene expression, and the polypeptide is the gene product encoded by the gene.

35 Scientists have previously discovered how to reverse the transcription process and copy mRNA back into DNA using an

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enzyme called reverse transcriptase. The resulting is called complementary DNA, or cDNA. This is schematically shown in the single Figure. When substantially all of the mRNA from one cell or tissue is converted to cDNA at once and cloned
5 into multiple copies of a recombinant vector to allow replication and manipulation in the laboratory, the result is called a cDNA library.

The various types of genes include those which code for polypeptides, those which are transcribed into RNA but are
10 not translated into polypeptides, and those whose functional significance does not demand that they be transcribed at all. Most genes are found on large molecules of DNA located in chromosomes. Double stranded cDNA carries all the information of a gene. Each base of the first strand is
15 joined to a complementary base (hybridized) in the second strand. The linear DNA molecules in chromosomes have thousands of genes distributed along their length. Chromosomes include both coding regions (coding for polypeptides) and noncoding regions; the coding regions
20 represent only about three percent of the total chromosome sequence.

An individual gene has regulatory regions that include a promoter which directs expression of the gene, a coding region which can code for a polypeptide, and a termination
25 signal. The regulatory DNA sequence is usually a noncoding region that determines if, where, when, and at what level a particular gene is expressed.

The coding regions of many genes are discontinuous, with coding sequences (exons) alternating with noncoding regions
30 (introns). The final mRNA copy of the gene does not include these introns (which can be much longer than the coding region itself), although it does contain certain untranslated regions that usually do not code for the polynucleotide gene product. Untranslated sequences at the beginning and end of
35 the mRNA are known as 5'- and 3'-untranslated regions,

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respectively. This nomenclature reflects the orientation of the nucleotide constituents of the mRNA.

A cDNA is a DNA copy of a messenger RNA, which contains all of the exons of a gene. The cDNA can be thought of as having three parts: an untranslated 5' leader, an uninterrupted polypeptide-coding sequence, and a 3' untranslated region. The untranslated leader and trailing sequences are important for initiation of translation, mRNA stability, and other functions. The untranslated leader and trailing sequences are called 5'- and 3'-untranslated sequences, respectively. The 3' untranslated sequence is usually longer than the 5' untranslated leader, and can be longer than the polypeptide-coding sequence. The untranslated regions typically have many, randomly-distributed stop codons, and do not display the nonrandom base arrangements found in coding sequences. The 5'-untranslated sequence is relatively short, generally between 20 and 200 bases. The 3'-untranslated sequence is often many times longer, up to several thousand bases.

The translated or coding sequence begins with a translational start codon (AUG or GUG) and ends with a translational stop codon (UAA, UGA, or UAG). Generally, translation begins at the first "start" codon on the mRNA and proceeds to the first "stop" codon. Coding sequences can be distinguished by their nonrandom distribution of bases; numerous computer algorithms have been developed to distinguish coding from noncoding regions in this way.

Human DNA differs from person to person. No two persons (except perhaps identical twins) have identical DNA. While the differences, called allelic variations or polymorphisms, are slight on a molecular level, they account for most of the physical and other observable differences between individuals. It has been estimated that approximately 14 million sequence polymorphism differences exist between individuals.

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The ability of one strand of DNA to attach or hybridize to a complementary strand has already been exploited for several purposes. For example, small pieces of DNA (15 to 25 base pairs long) can be made which will hybridize to longer strands of DNA which have a complementary sequence. These short "primers" can be selected such that they hybridize to a specific, unique location on the longer strand. Once the primers have hybridized to their target on the DNA, the polymerase chain reaction (PCR) can be employed to generate millions of copies of (or amplify) the particular segment of DNA between the locations to which two primers are bound. Briefly, this technique allows amplification of a DNA region situated between two convergent primers, using oligonucleotide primers that hybridize to opposite strands. Primer extension proceeds inward across the region between the two primers, and the product of DNA synthesis of one primer serves as a template for the other primer. Repeated cycles of DNA denaturation, annealing of primers, and extension result in an exponential increase in the number of copies of the region bounded by the primers.

Similarly, a labeled segment of single-stranded DNA can be hybridized to a longer DNA sequence, such as a chromosome, to mark a specific location on the longer sequence. Segments of DNA 50 bases long or longer that hybridize to a unique DNA location in the human genome are extremely unlikely to hybridize elsewhere in the human genome.

The Human Genome Project is an effort to sequence all human DNA (the human genome). The human genome is estimated to comprise 50,000 - 100,000 genes, up to 30,000 of which might be expressed in the brain (Sutcliffe, *Ann. Rev. Neurosci.* 11:157 (1988)). Once dedicated human chromosome sequencing begins in three to five years, it was expected that 12-15 years will be required to complete the sequence of the genome (Report of the Ad Hoc Program Advisory Committee on Complex Genomes, Reston, Va., Feb. 1988, D. Baltimore Ed. (NIH, Bethesda, Md, 1988)). At that rate, the majority of

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human genes would remain unknown for at least the next decade. The present invention can greatly accelerate the pace at which human genes can be identified and mapped. Most gene researchers, in conjunction with publication of their results in this field, submit sequence data to the GenBank database. Prior to the present invention, GenBank listed the sequences of only a few thousand human genes and less than two hundred human brain mRNAs (GenBank Release 66.0, December, 1990).

The role of sequencing complementary DNA (cDNA), reverse transcribed from mRNA, as a part of the human genome project has been vigorously debated since the idea of determining the complete nucleotide sequence of humans first surfaced. The coding sequence of all human genes represents most of the information content of the genome, but only 3-5% of the total DNA. In contrast, cDNA (which is only made from the transcription product of active genes) is one-half to three-fourths (the remainder being 5'- and 3'-untranslated sequence) meaningful genetic information. Thus, some have argued that cDNA sequencing should take precedence over genomic sequencing (Brenner, *CIBA Found. Symp.* 149:6 (1990)). However, until now, such arguments have not been heeded.

Genomic sequencing proponents have argued the difficulty of finding every mRNA expressed in all tissues, cell types, and developmental states, and that much valuable information from intronic and intergenic regions, including control and regulatory sequences, will be missed by cDNA sequencing. (Report of the Committee on Mapping and Sequencing the Human Genome, National Research Council (National Academy Press, Washington, D.C. 1988)). Further, sequencing of transcribed regions of the genome using cDNA libraries has heretofore been considered impractical or unsatisfactory. Libraries of cDNA were believed to be dominated by repetitive elements, mitochondrial genes, ribosomal RNA genes, and other nuclear genes comprising common or housekeeping sequences. It was believed that cDNA libraries would provide few sequences

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corresponding to structural and regulatory polypeptides or peptides. See, for example, Putney, et al., *Nature* 302:718-721 (1983). Putney, et al. sequenced over 150 clones from a rabbit muscle cDNA library and identified clones for 13 of the 19 known muscle polypeptides, including one new isotype but no unknown coding sequences.

Another perceived drawback of cDNA sequencing was that some mRNAs are abundant, and some are rare. The cellular quantities of mRNA from various genes can vary by several orders of magnitude. This led critics to believe that most information obtained from cDNA sequencing would be repetitious and useless.

The present invention demonstrates that, despite such skepticism, cDNA sequencing now provides a rapid method for obtaining enormous amounts of valuable genetic information and DNA products of great utility for the biotechnology and pharmaceutical industries. Not only can many distinct cDNAs be isolated and sequenced, even partial cDNAs can be used, with conventional, well-understood methods, to isolate entire genes, and to determine the chromosomal locations and biological functions of these genes. As is demonstrated here, fragments of only a few hundred bases are sufficient, in many cases, to identify the probable function of a new human gene if it is similar in structure to a gene from another animal, or from plants or bacteria. Similarly, even fragments of untranslated regions of a cDNA can be used to: i) isolate the coding sequence of the cDNA; ii) isolate the complete gene; iii) determine the position of the gene on a human chromosome, and hence the potential of the gene to cause a human genetic disease; and iv) determine the function of the gene by means of experiments in which the function of the native gene is disrupted by the addition of a short DNA fragment to the cell, e.g., using triple helix or antisense probes.

Because coding regions comprise such a small portion of the human genome, identification and mapping of transcribed

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regions and coding regions of chromosomes is of significant interest. There is a corresponding need for reagents for identifying and marking coding regions and transcribed regions of chromosomes. Furthermore, such human sequences are valuable for chromosome mapping, human identification, identification of tissue type and origin, forensic identification, and locating disease-associated genes (i.e., genes that are associated with an inherited human disease, whether through mutation, deletion, or faulty gene expression) on the chromosome.

SUMMARY OF THE INVENTION

Contrary to the expectations of the scientific community, cDNA screening and sequencing techniques have now been used to discover a large number of heretofore unknown human genes. Disclosed herein are over 2,400 new human polynucleotide sequences. These sequences could represent up to 5% of all human genes. The novelty of these sequences has been established through comparison to both nucleotide sequence databases and amino acid sequence databases. Surprisingly, over 80% of the sequences generated were unrelated to any sequences previously described in the literature.

The sequences of the present invention were ascertained using a fast approach to cDNA characterization. This approach could facilitate the tagging of most expressed human genes within a few years at a fraction of the cost of complete genomic sequencing, provide new genetic markers, provide new DNA-based therapeutics and diagnostics, and provide other valuable nucleotide reagents.

The sequences disclosed herein, styled Expressed Sequence Tags ("ESTs"), are markers for human genes actually transcribed *in vivo*. Techniques are disclosed for using these ESTs to obtain the full coding region of the corresponding gene. The use of ESTs, complete coding sequences, or fragments thereof for marking chromosomes, for

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mapping locations of expressed genes on chromosomes, for individual or forensic identification, for mapping locations of disease-associated genes, for identification of tissue type, and for preparation of antisense sequences, probes, and constructs is discussed in detail below. Unlike the random genomic DNA sequence tagged sites (STSS) (Olson et al., *Science* 245:1434 (1989)), ESTs point directly to expressed genes.

Various aspects of the present invention thus include the individual ESTs, corresponding partial and complete cDNA, genomic DNA, mRNA, antisense strands, triple helix probes, PCR primers, coding regions, and constructs. Also, where one skilled in the art is enabled by this specification to prepare expression vectors and polypeptide expression products, they are also within the scope of the present invention, along with antibodies, especially monoclonal antibodies, to such expression products.

BRIEF DESCRIPTION OF THE DRAWING

The single drawing Figure schematically illustrates the progression from chromosome to gene to mRNA to cDNA.

DETAILED DESCRIPTION OF THE INVENTION

The detailed description that follows provides not only the actual sequence of each new EST, but also explains how the ESTs were obtained, how to obtain the corresponding complete cDNA sequence and the corresponding genomic DNA sequence, how to make DNA constructs from the ESTs and corresponding sequences, how to use those sequences as reagents in molecular biology and other fields, how to produce gene products from the ESTs and corresponding sequences and antibodies to those gene products, and the functional categories of many ESTs and corresponding genes. Furthermore, numerous actual working examples and predictive

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examples are provided to demonstrate and exemplify numerous aspects of the invention.

I. ESTs from cDNA Libraries

5 The sequences of the present invention were isolated from commercially available and custom made cDNA libraries using a rapid screening and sequencing technique. In general, the method comprises applying conventional automated DNA sequencing technology to screening clones, advantageously
10 randomly selected clones, from a cDNA library. Preferably, the library is initially "enriched" through removal of ribosomal sequences and other common sequences prior to clone selection. According to the present method, ESTs are generated from partial DNA sequencing of the selected clones.
15 The ESTs of the present invention were generated using low redundancy of sequencing, typically a single sequencing reaction. While single sequencing reactions may have an accuracy as low as 97%, this nevertheless provides sufficient fidelity for identification of the sequence and design of PCR
20 primers.

 Most human genes can be identified by EST sequencing from libraries of cDNA copies of messenger RNAs. However, some genes are expressed only at specific times during embryonic development, or only in small amounts in a few
25 specific cell types. Other genes have mRNAs that are degraded very quickly by the cell in which they are expressed. If any of these are the case, transcripts of the gene will not be represented in cDNA libraries so the gene will not be identifiable by EST sequencing. A new method
30 called "exon amplification", however, can be used to isolate and identify transcripts of such genes.

 Exon amplification works by artificially expressing part or all of a gene that is contained in a cloned fragment of genomic DNA such as a cosmid or yeast artificial chromosome
35 (YAC). The gene is cloned into a special vector, designed at MIT, that uses control elements from virus genes to express

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the protein-coding exons of the human gene of interest. Exon trapping shows considerable promise as a general technique for identifying those genes in the human genome that cannot be found by cDNA cloning and EST sequencing. Exon amplification will also be useful for identifying the genes in regions of genomic DNA to which disease genes have been mapped. The exon amplification method can be used directly with the cosmid and YAC clones from human chromosomes that are being obtained by both NIH and DOE supported human genome centers. ESTs comprise DNA sequences corresponding to a portion of nuclear encoded messenger RNA. An EST is of sufficient length to permit: (1) amplification of the specific sequence from a cDNA library, e.g., by polymerase chain reaction (PCR); (2) use of a synthetic polynucleotide corresponding to a partial or complete sequence of the EST as a hybridization probe of a cDNA library, generally having 30 - 50 base pairs; or (3) unique designation of the pure cDNA clone from which the EST was derived (the EST clone) for use as a hybridization probe of a cDNA library. Preferably, EST-derived primer pairs and sequences amplify or detectably hybridize to a sequence from a genomic library.

It has been found that sufficient information is contained in the 150-400 base ESTs from one sequencing run to effect preliminary identification and exact chromosome mapping. Accordingly, the ESTs disclosed herein are generally at least 150 base pairs in length. The length of an EST is determined by the quality of sequencing data and the length of the cloned cDNA. Raw data from the automated sequencers is edited to remove low quality sequence at the end of the sequencing run. High quality sequences (usually a result of sequencing templates without excessive salt contamination) generally give about 400 bp of reliable sequence data; other sequences give fewer bases of reliable data. A 150 bp EST is long enough to be translated into a 50 amino acid peptide sequence. This length is sufficient to observe similarities when they exist in a database search. Furthermore, 150 bp is

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long enough to design PCR primers from each end of the sequence to amplify the complete EST. Sequences shorter than 150 bp are difficult to purify and use following PCR amplification. Furthermore, a 150 bp polynucleotide is likely to give a very strong signal with low background in a screen of a genomic library.

Finally, it is highly unlikely that a sequence of the same 150 bp exists in any genes in the genome besides the one tagged by the EST. Some closely related gene family members have very similar nucleotide sequences, but no examples of pairs of human genes with long segments of identical sequence have been reported to date. For instance, there are three known β -tubulin genes in humans. Several ESTs were found that matched one or another of these tubulin genes, but several new members of this gene family were also found and could be clearly distinguished from the three known members. ESTs that match perfectly to several different genes can be detected by hybridizing to chromosomes: if many chromosomal loci are observed, the sequence (or a close variant) is present in more than one gene. This problem can be circumvented by using the 3'-untranslated part of the cDNA alone as a probe for the chromosomal location or for the full-length cDNA or gene. The 3'-untranslated region is more likely to be unique within gene families, since there is no evolutionary pressure to conserve a coding function of this region of the mRNA.

As demonstrated in the Examples that follow, ESTs can be used to map the expressed sequence to a particular chromosome. In addition, ESTs can be expanded to provide the full coding regions, as detailed below. In this manner, previously unknown genes can be identified.

While a variety of cDNA libraries can be used to obtain ESTs, human brain cDNA libraries are exemplified and represent a preferred embodiment. Suitable cDNA libraries can be freshly prepared or obtained commercially, e.g., as shown in Examples 1, 2, and 11. The cDNA libraries from the

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desired tissue are preferably preprocessed by conventional techniques to reduce repeated sequencing of high and intermediate abundance clones and to maximize the chances of finding rare messages from specific cell populations.

5 Preferably, preprocessing includes the use of defined composition prescreening probes, e.g., cDNA corresponding to mitochondria, abundant sequences, ribosomes, actins, myelin basic polypeptides, or any other known high abundance peptide; these prescreening probes used for preprocessing are

10 generally derived from known ESTs. Other useful preprocessing techniques include subtraction, which preferentially reduces the population of certain sequences in the library (e.g., see A. Swaroop et al., *Nucl. Acids Res.* 19, 1954 (1991)), and normalization, which results in all

15 sequences being represented in approximately equal proportions in the library (Patanjali et al, *Proc. Natl. Acad. Sci. USA* 88:1943 (1991)).

The cDNA libraries used in the present method will ideally use directional cloning methods so that either the 5' end of the cDNA (likely to contain coding sequence) or the 3' end (likely to be a non-coding sequence) can be selectively obtained."

20

Libraries of cDNA can also be generated from recombinant expression of genomic DNA. After they are amplified, ESTs

25 can be obtained and sequenced, e.g., as illustrated in Example 11.

The sequences of the present invention include the specific sequences set forth in the Sequence Listing and designated SEQ ID NO: 1 - SEQ ID NO: 2412. In one aspect of

30 this embodiment, the invention relates to those sequences of SEQ ID NOS: 1 - 2412 that comprise the cDNA coding sequences for polypeptides having less than 95% identity with known amino acid sequences (see Table 2) and more preferably less than 90% or 85% identity. In a second aspect, the invention

35 relates to those sequences of SEQ ID NOS: 1 - 2412 that encode polypeptides having no similarity to known amino acid

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sequences (see Examples that follow). Precisely because they do not contain coding regions and are therefore more unique in their sequence structures, those sequences which meet neither of the preceding criteria can be most useful and are generally preferred for mapping.

Consistent with the NIH mission and its responsibilities to disseminate knowledge and share the tangible fruits of its research, the present inventors have taken a number of steps to facilitate sequence data and clone availability. All EST sequences have been submitted to GenBank (representing an addition equivalent to 7% of the human nucleotides in Release 69 of GenBank, September 1991). The corresponding cDNA clones have been submitted to the American Type Culture Collection and information on clones and sequences has been submitted to the Genome Data Base (Pearson, P. Nucl. Acids Res. 19 (Suppl.): 2237-9 (1991)).

II. Complete Coding Sequences from ESTs

The ESTs of the present invention generally represent relatively small coding regions or untranslated regions of human genes. Although most of these sequences do not code for a complete gene product, the ESTs of the present invention are highly specific markers for the corresponding complete coding regions. The ESTs are of sufficient length that they will hybridize, under stringent conditions, only with DNA for that gene to which they correspond. Suitably stringent conditions comprise conditions, for example, where at least 95%, preferably at least 97% or 98% identity (base pairing), is required for hybridization. This property permits use of the EST to isolate the entire coding region and even the entire sequence. Therefore, only routine laboratory work is necessary to parlay the unique EST sequence into the corresponding unique complete gene sequence.

Thus, each of the ESTs of the present invention "corresponds" to a particular unique human gene. Knowledge

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of the EST sequence permits routine isolation and sequencing of the complete coding sequence of the corresponding gene. The complete coding sequence is present in a full-length cDNA clone as well as in the gene carried on genomic clones. Therefore, each EST "corresponds" to a cDNA (from which the EST was derived), a complete genomic gene sequence, a polypeptide coding region (which can be obtained either from the cDNA or genomic DNA), and a polypeptide or amino acid sequence encoded by that region.

The first step in determining where an EST is located in the cDNA is to analyze the EST for the presence of coding sequence, e.g., as described in Example 14. The CRM program predicts the extent and orientation of the coding region of a sequence. Based on this information, one can infer the presence of start or stop codons within a sequence and whether the sequence is completely coding or completely non-coding. If start or stop codons are present, then the EST can cover both part of the 5'-untranslated or 3'-untranslated part of the mRNA (respectively) as well as part of the coding sequence. If no coding sequence is present, it is likely that the EST is derived from the 3'-untranslated sequence due to its longer length and the fact that most cDNA library construction methods are biased toward the 3' end of the mRNA.

One general procedure for obtaining complete sequences from ESTs is as follows:

1. Purify selected human DNA from an EST clone (the cDNA clone that was sequenced to give the EST), e.g., by endonuclease digestion using ECOR1, gel electrophoresis, and isolation of the aforementioned clone by removal from low-melting agarose gel.

2. Radiolabel the isolated insert DNA, e.g., with ³²P labels, preferably by nick translation or random primer labeling.

3. Use the labeled EST insert as a probe to screen a lambda phage cDNA library or a plasmid cDNA library.

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4. Identify colonies containing clones related to the probe cDNA and purify them by known purification methods.

5. Nucleotide sequence the ends of the newly purified clones to identify full length sequences.

5 6. Perform complete sequencing of full length clones by Exonuclease III digestion or primer walking. Northern blots of the mRNA from various tissues using at least part of the EST clone as a probe can optionally be performed to check the size of the mRNA against that of the purported full
10 length cDNA.

An EST is a specific tag for a messenger RNA molecule. The complete sequence of that messenger RNA, in the form of cDNA, can be determined using the EST as a probe to identify a cDNA clone corresponding to a full-length transcript,
15 followed by sequencing of that clone. The EST or the full-length cDNA clone can also be used as a probe to identify a genomic clone or clones that contain the complete gene including regulatory and promoter regions, exons, and introns.

20 ESTs are used as probes to identify the cDNA clones from which an EST was derived. ESTs, or portions thereof, can be nick-translated or end-labelled with P^{32} using polynucleotide kinase using labelling methods known to those with skill in the art. (**Basic Methods in Molecular Biology**, L.G. Davis, M.D. Dibner, and J.F. Battey, ed., Elsevier Press, NY, 1986). The
25 lambda library can be directly screened with the labelled ESTs of interest or the library can be converted en masse to pBluescript (Stratagene, La Jolla, California) to facilitate bacterial colony screening. Both methods are well known in the art. Briefly, filters with bacterial colonies containing
30 the library in pBluescript or bacterial lawns containing lambda plaques are denatured and the DNA is fixed to the filters. The filters are hybridized with the labelled probe using hybridization conditions described by Davis et al. The
35 ESTs, cloned into lambda or pBluescript, can be used as positive controls to assess background binding and to adjust

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the hybridization and washing stringencies necessary for accurate clone identification. The resulting autoradiograms are compared to duplicate plates of colonies or plaques; each exposed spot corresponds to a positive colony or plaque. The colonies or plaques are selected, expanded and the DNA is isolated from the colonies for further analysis and sequencing.

The ESTs can additionally be used to screen Northern blots of mRNA obtained from various tissues or cell cultures, including the tissue of origin of the EST clone. Northern analysis will most often produce one to several positive bands. The bands can be selected for further study based on the predicted size of the mRNA.

Positive cDNA clones in phage lambda are analyzed to determine the amount of additional sequence they contain using PCR with one primer from the EST and the other primer from the vector. Clones with a larger vector-insert PCR product than the original EST clone are analyzed by restriction digestion and DNA sequencing to determine whether they contain an insert of the same size or similar as the mRNA size on a Northern blot.

Once one or more overlapping cDNA clones are identified, the complete sequence of the clones can be determined. The preferred method is to use exonuclease III digestion (McCombie, W.R, Kirkness, E., Fleming, J.T., Kerlavage, A.R., Iovannisci, D.M., and Martin-Gallardo, R., *Methods*: 3: 33-40, 1991). A series of deletion clones is generated, each of which is sequenced. The resulting overlapping sequences are assembled into a single contiguous sequence of high redundancy (usually three to five overlapping sequences at each nucleotide position), resulting in a highly accurate final sequence.

A similar screening and clone selection approach can be applied to obtaining cosmid or lambda clones from a genomic DNA library that contains the complete gene from which the EST was derived (Kirkness, E.F., Kusiak, J.W., Menninger, J.,

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Gocayne, J.D., Ward, D.C., and Venter, J.C. *Genomics* 10: 985-995 (1991). Although the process is much more laborious, these genomic clones can be sequenced in their entirety also. A shotgun approach is preferred to sequencing clones with
5 inserts longer than 10 kb (genomic cosmid and lambda clones). In shotgun sequencing, the clone is randomly broken into many small pieces, each of which is partially sequenced. The sequence fragments are then aligned to produce the final contiguous sequence with high redundancy. An intermediate
10 approach is to sequence just the promoter region and the intron-exon boundaries and to estimate the size of the introns by restriction endonuclease digestion (ibid.).

Using the sequence information provided herein, the polynucleotides of the present invention can be derived from
15 natural sources or synthesized using known methods. The sequences falling within the scope of the present invention are not limited to the specific sequences described, but include human allelic and species variations thereof and portions thereof of at least 15-18 bases. (Sequences of at
20 least 15-18 bases can be used, for example, as PCR primers or as DNA probes.) In addition, the invention includes the entire coding sequence associated with the specific polynucleotide sequence of bases described in the Sequence Listing, as well as portions of the entire coding sequence of
25 at least 15-18 bases and allelic and species variations thereof. Furthermore, to accommodate codon variability, the invention includes sequences coding for the same amino acid sequences as do the specific sequences disclosed herein. Finally, although the error rate in the automated sequencing
30 used in the present invention is small, there remains some chance of error. Therefore, claims to particular sequences should not be so narrowly construed as to require inclusion of erroneously identified bases or to exclude corrections.

Any specific sequence disclosed herein can be readily
35 screened for errors by resequencing each EST in both directions (i.e., sequence both strands of cDNA).

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The sequences, constructs, vectors, clones, and other materials comprising the present invention can advantageously be in enriched or isolated form. As used herein, "enriched" means that the concentration of the material is at least about 2, 5, 10, 100, or 1000 times its natural concentration (for example), advantageously 0.01%, by weight, preferably at least about 0.1% by weight. Enriched preparations of about 0.5%, 1%, 5%, 10%, and 20% by weight are also contemplated. Further, removal of clones corresponding to ribosomal RNA and "housekeeping" genes and clones without human cDNA inserts results in a library that is "enriched" in the desired clones.

The term "isolated" requires that the material be removed from its original environment (e.g., the natural environment if it is naturally occurring). For example, a naturally-occurring polynucleotide present in a living animal is not isolated, but the same polynucleotide, separated from some or all of the coexisting materials in the natural system, is isolated.

It is also advantageous that the sequences be in purified form. The term "purified" does not require absolute purity; rather, it is intended as a relative definition. Individual EST clones isolated from a cDNA library have been conventionally purified to electrophoretic homogeneity. The sequences obtained from these clones could not be obtained directly either from the library or from total human DNA. The cDNA clones are not naturally occurring as such, but rather are obtained via manipulation of a partially purified naturally occurring substance (messenger RNA). The conversion of mRNA into a cDNA library involves the creation of a synthetic substance (cDNA) and pure individual cDNA clones can be isolated from the synthetic library by clonal selection. Thus, creating a cDNA library from messenger RNA and subsequently isolating individual clones from that library results in an approximately 10^6 -fold purification of the native message. Purification of starting material or

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natural material to at least one order of magnitude, preferably two or three orders, and more preferably four or five orders of magnitude is expressly contemplated.

5 In a cDNA library there are many species of mRNA represented. Each cDNA clone can be interesting in its own right, but must be isolated from the library before further experimentation can be completed. In order to sequence any specific cDNA, it must be removed and separated (i.e. isolated and purified) from all the other sequences. This
10 can be accomplished by many techniques known to those of skill in the art. These procedures normally involve identification of a bacterial colony containing the cDNA of interest and further amplification of that bacteria. Once a cDNA is separated from the mixed clone library, it can be
15 used as a template for further procedures such as nucleotide sequencing.

Although claims to large numbers of ESTs and corresponding sequences are presented herein, the invention is not limited to these particular groupings of sequences.
20 Thus, individual sequences are considered as applicants' discoveries or inventions, as are subgroupings of sequences. All of the functional subgroupings set forth in the tables define groupings for which separate claims are contemplated as being within the scope of this invention. Moreover, in
25 addition to claims to individual clones, it is intended that the present disclosure also support claims to numerical subgroupings. Thus, subgroupings of 50 ESTs (and corresponding sequences) are contemplated (e.g., SEQ ID NOS 1-50, 51-100, 101-150, etc.) as being within the scope of
30 this invention, as are subgroupings of 5, 10, 25, 100, 200, and 500 ESTs and corresponding sequences.

III. DNA Constructs

35 The present invention also includes recombinant constructs comprising one or more of the sequences as broadly described above. The constructs comprise a vector, such as

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a plasmid or viral vector, into which a sequence of the invention has been inserted, in a sense or antisense orientation. In a preferred aspect of this embodiment, the construct further comprises regulatory sequences, including

5 for example, a promoter, operably linked to the sequence. Large numbers of suitable vectors and promoters are known to those of skill in the art, and are commercially available. The following vectors are provided by way of example.

Bacterial: pBs, phagescript, ϕ X174, pBluescript SK, pBs KS, pNH8a, pNH16a, pNH18a, pNH46a (Stratagene); pTrc99A, pKK223-3, pKK233-3, pDR540, pRIT5 (Pharmacia).

Eukaryotic: pWLneo, pSV2cat, pOG44, pXT1, pSG (Stratagene); pSVK3, pBPV, pMSG, pSVL (Pharmacia).

Promoter regions can be selected from any desired gene

15 using CAT (chloramphenicol transferase) vectors or other vectors with selectable markers. Two appropriate vectors are pKK232-8 and pCM7. Particular named bacterial promoters include lacI, lacZ, T3, T7, gpt, lambda P_R, and trc. Eukaryotic promoters include CMV immediate early, HSV

20 thymidine kinase, early and late SV40, LTRs from retrovirus, and mouse metallothionein-I. Selection of the appropriate vector and promoter is well within the level of ordinary skill in the art.

In a further embodiment, the present invention relates

25 to host cells containing the above-described construct. The host cell can be a higher eukaryotic cell, such as a mammalian cell, or a lower eukaryotic cell, such as a yeast cell, or the host cell can be a procaryotic cell, such as a bacterial cell. Introduction of the construct into the host

30 cell can be effected by calcium phosphate transfection, DEAE dextran mediated transfection, or electroporation (Davis, L., Dibner, M., Battey, I., **Basic Methods in Molecular Biology**, (1986)).

The constructs in host cells can be used in a

35 conventional manner to produce the gene product coded by the recombinant sequence. Alternatively, the encoded polypeptide

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can be synthetically produced by conventional peptide synthesizers.

Certain ESTs have already been preliminarily categorized by analogy to related sequences in other organisms (see Table 2). Table 10 of Example 10 categorizes particular ESTs broadly as metabolic, regulatory, and structural sequences where known. Constructs comprising genes or coding sequences corresponding to each of these categories are, therefore, specifically and individually contemplated.

Table 11 more particularly separates 127 new ESTs into 13 categories using a different criteria. These are genes related to cell surface; developmental control; energy metabolism; kinase and phosphatase; oncogenes; other metabolism-related polypeptides; peptidases and peptidase inhibitors; receptors; structural and cytoskeletal; signal transduction; transporters; transcription, translation, and subcellular localization; and transcription factors. Table 11 further identifies the EST by the particular gene product for which it apparently codes. Each of these categories individually comprises a preferred category of EST, and preferred constructs and resulting polypeptide can be prepared from those ESTs or the corresponding complete gene sequence.

IV. ESTs and Corresponding Sequences as Reagents

Each of the cDNA sequences identified herein (and the corresponding complete gene sequences) can be used in numerous ways as polynucleotide reagents. The sequences can be used as diagnostic probes for the presence of a specific mRNA in a particular cell type. In addition, these sequences can be used as diagnostic probes suitable for use in genetic linkage analysis (polymorphisms). Further, the sequences can be used as probes for locating gene regions associated with genetic disease, as explained in more detail below.

The EST and complete gene sequences of the present invention are also valuable for chromosome identification.

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Each sequence is specifically targeted to and can hybridize with a particular location on an individual human chromosome. Moreover, there is a current need for identifying particular sites on the chromosome. Few chromosome marking reagents based on actual sequence data (repeat polymorphisms) are presently available for marking chromosomal location. The present invention constitutes a major expansion of available chromosome markers. One hundred ESTs have already been mapped to chromosomes. Using the techniques described in Example 5 or 6, the remaining ESTs and the corresponding complete sequences can similarly be mapped to chromosomes. The mapping of ESTs and cDNAs to chromosomes according to the present invention is an important first step in correlating those sequences with genes associated with disease.

Briefly, sequences can be mapped to chromosomes by preparing PCR primers (preferably 15-25 bp) from the ESTs. Computer analysis of the ESTs is used to rapidly select primers that do not span more than one exon in the genomic DNA, thus complicating the amplification process. These primers are then used for PCR screening of somatic cell hybrids containing individual human chromosomes. Only those hybrids containing the human gene corresponding to the EST will yield an amplified fragment.

PCR mapping of somatic cell hybrids is a rapid procedure for assigning a particular EST to a particular chromosome. Three or more clones can be assigned per day using a single thermal cycler. Using the present invention with the same oligonucleotide primers, sublocalization can be achieved with panels of fragments from specific chromosomes or pools of large genomic clones in an analogous manner. Other mapping strategies that can similarly be used to map an EST to its chromosome include in situ hybridization, prescreening with labeled flow-sorted chromosomes and preselection by hybridization to construct chromosome specific cDNA libraries. Results of mapping ESTs to chromosomal segments are listed in Tables 3 and 4.

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Fluorescence in situ hybridization (FISH) of a cDNA clone to a metaphase chromosomal spread can be used to provide a precise chromosomal location in one step. This technique can be used with cDNA as short as 500 or 600 bases; however, clones larger than 2,000 bp have a higher likelihood of binding to a unique chromosomal location with sufficient signal intensity for simple detection. FISH requires use of the clone from which the EST was derived, and the longer the better. 2,000 bp is good, 4,000 is better, and more than 4,000 is probably not necessary to get good results a reasonable percentage of the time. For a review of this technique, see Verma et al., **Human Chromosomes: a Manual of Basic Techniques**. Pergamon Press, New York (1988).

Reagents for chromosome mapping can be used individually (to mark a single chromosome or a single site on that chromosome) or as panels of reagents (for marking multiple sites and/or multiple chromosomes). Reagents corresponding to noncoding regions of the genes actually are preferred for mapping purposes. Coding sequences are more likely to be conserved within gene families, thus increasing the chance of cross hybridizations during chromosomal mapping (see Tables 8 and 9).

Once a sequence has been mapped to a precise chromosomal location, the physical position of the sequence on the chromosome can be correlated with genetic map data. (Such data are found, for example, in V. McKusick, **Mendelian Inheritance in Man** (available on line through Johns Hopkins University Welch Medical Library).) The relationship between genes and diseases that have been mapped to the same chromosomal region are then identified through linkage analysis (coinheritance of physically adjacent genes).

Next, it is necessary to determine the differences in the cDNA or genomic sequence between affected and unaffected individuals. If a mutation is observed in some or all of the affected individuals but not in any normal individuals, then

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the mutation is likely to be the causative agent of the disease.

With current resolution of physical mapping and genetic mapping techniques, a cDNA precisely localized to a chromosomal region associated with the disease could be one of between 50 and 500 potential causative genes. (This assumes 1 megabase mapping resolution and one gene per 20 kb.)

Comparison of affected and unaffected individuals generally involves first looking for structural alterations in the chromosomes, such as deletions or translocations that are visible from chromosome spreads or detectable using PCR based on that cDNA sequence. Ultimately, complete sequencing of genes from several individuals is required to confirm the presence of a mutation and to distinguish mutations from polymorphisms.

In addition to the foregoing, the sequences of the invention, as broadly described, can be used to control gene expression through triple helix formation or antisense DNA or RNA, both of which methods are based on binding of a polynucleotide sequence to DNA or RNA. Polynucleotides suitable for use in these methods are usually 20 to 40 bases in length and are designed to be complementary to a region of the gene involved in transcription (triple helix - see Lee et al, **Nucl. Acids Res.** 6: 3073 (1979); Cooney et al, **Science** 241: 456 (1988); and Dervan et al, **Science** 251: 1360 (1991)) or to the mRNA itself (antisense - Okano, J. **Neurochem.** 56: 560 (1991); **Oligodeoxynucleotides as Antisense Inhibitors of Gene Expression**, CRC Press, Boca Raton, FL (1988)). Triple helix formation optimally results in a shut-off of RNA transcription from DNA, while antisense RNA hybridization blocks translation of an mRNA molecule into polypeptide. Both techniques have been demonstrated to be efficient in model systems. Information contained in the sequences of the present invention is necessary for the design of an antisense or triple helix oligonucleotide.

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The present invention is also useful tool in gene therapy, which requires isolation of the disease-associated gene in question as a prerequisite to the insertion of a normal gene into an organism to correct a genetic defect. ■
5 high specificity of the cDNA probes according to this invention have promise of targeting such gene locations in a highly accurate manner.

The sequences of the present invention, as broadly defined, are also useful for identification of individuals
10 from minute biological samples. The United States military, for example, is considering the use of restriction fragment length polymorphism (RFLP) for identification of its personnel. In this technique, an individual's genomic DNA is digested with one or more restriction enzymes, and probed on
15 a Southern blot to yield unique bands for identifying personnel. This method does not suffer from the current limitations of "Dog Tags" which can be lost, switched, or stolen, making positive identification difficult. The sequences of the present invention are useful as additional
20 DNA markers for RFLP.

However, RFLP is a pattern based technique, which does not directly focus on the actual DNA sequence of the individual. The sequences of the present invention can be used to provide an alternative technique that determines the
25 actual base-by-base DNA sequence of selected portions of an individual's genome. These sequences can be used to prepare PCR primers for amplifying and isolating such selected DNA. One can, for example, take an EST of the invention and prepare two PCR primers from the 5' and 3' ends of the EST.
30 These are used to amplify an individual's DNA, corresponding to the EST. The amplified DNA is sequenced.

Panels of corresponding DNA sequences from individuals, made this way, can provide unique individual identifications, as each individual will have a unique set of such DNA
35 sequences, due to allelic differences. The sequences of the present invention can be used to particular advantage to

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obtain such identification sequences from individuals and from tissue, as explained in Examples 12 - 14.

5 The EST sequences from Examples 1 and 2 and the complete sequences from Example 13 uniquely represent portions of the human genome. Allelic variation occurs to some degree in the coding regions of these sequences, and to a greater degree in the noncoding regions. It is estimated that allelic variation between individual humans occurs with a frequency of about once per each 500 bases. Each of the ESTs or
10 complete coding sequences comprising a part of the present invention can, to some degree, be used as a standard against which DNA from an individual can be compared for identification purposes. Because greater numbers of polymorphisms occur in the noncoding regions, fewer sequences
15 are necessary to differentiate individuals. The noncoding sequences of Table 9 for example, could comfortably provide positive individual identification with a panel of perhaps 100 to 1,000 primers which each yield a noncoding amplified sequence of 100 bp. If predicted coding sequences, such as
20 those from Table 6, are used, a more appropriate number of primers for positive individual identification would be 500-2,000.

If a panel of reagents from ESTs or complete sequences of this invention is used to generate a unique ID database
25 for an individual, those same reagents can later be used to identify tissue from that individual. Positive identification of that individual, living or dead can be made from extremely small tissue samples.

Another use for DNA-based identification techniques is
30 in forensic biology. PCR technology can be used to amplify DNA sequences taken from very small biological samples such as tissues, e.g., hair or skin, or body fluids, e.g., blood, saliva, semen, etc. In one prior art technique, gene sequences are amplified at specific loci known to contain a
35 large number of allelic variations, for example the DQ α class II HLA gene (Erlich, H., PCR Technology, Freeman and Co.

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(1992)). Once this specific area of the genome is amplified, it is digested with one or more restriction enzymes to yield an identifying set of bands on a Southern blot probed with DNA corresponding to the DQ α class II HLA gene.

5 The sequences of the present invention can be used to provide polynucleotide reagents specifically targeted to additional loci in the human genome, and can enhance the reliability of DNA-based forensic identifications. Those sequences targeted to noncoding regions (see, e.g., Tables 8
10 and 9) are particularly appropriate. As mentioned above, actual base sequence information can be used for identification as an accurate alternative to patterns formed by restriction enzyme generated fragments. Reagents for obtaining such sequence information are within the scope of
15 the present invention. Such reagents can comprise complete ESTs or corresponding coding regions, or fragments of either of at least 15 bp, preferably at least 18 bp.

 There is also a need for reagents capable of identifying the source of a particular tissue. Such need arises, for
20 example, in forensics when presented with tissue of unknown origin. Appropriate reagents can comprise, for example, DNA probes or primers specific to particular tissue prepared from the ESTs or complete sequences of the present invention. Panels of such reagents can identify tissue by species and/or
25 by organ type. In a similar fashion, these reagents can be used to screen tissue culture for contamination.

V. Production of Polypeptide Corresponding to ESTs

 As previously explained, each EST corresponds not only
30 to a coding region, but also to a polypeptide. Once the coding sequence is known, or the gene is cloned which encodes the polypeptide, conventional techniques in molecular biology can be used to obtain the polypeptide.

 At the simplest level, the amino acid sequence encoded
35 by the polynucleotide sequence can be synthesized using commercially available peptide synthesizers. This is

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particularly useful in producing small peptides and fragments of larger polypeptides. (Fragments are useful, for example, in generating antibodies against the native polypeptide.)

Alternatively, the DNA encoding the desired polypeptide
5 can be inserted into a host organism and expressed. The organism can be a bacterium, yeast, cell line, or multicellular plant or animal. The literature is replete with examples of suitable host organisms and expression techniques. For example, naked polynucleotide (DNA or mRNA)
10 can be injected directly into muscle tissue of mammals, where it is expressed. This methodology can be used to deliver the polypeptide to the animal, or to generate an immune response against a foreign polypeptide. Wolff, et al., **Science** 247:1465 (1990); Felgner, et al., **Nature** 349:351 (1991).
15 Alternatively, the coding sequence, together with appropriate regulatory regions (i.e., a construct), can be inserted into a vector, which is then used to transfect a cell. The cell (which may or may not be part of a larger organism) then expresses the polypeptide. (See Example 25.)

20 Antibodies generated against the polypeptide corresponding to a sequence of the present invention can be obtained by direct injection of the naked polypeptide into an animal (as above) or by administering the polypeptide to an animal, preferably a nonhuman. The antibody so obtained will
25 then bind the polypeptide itself. In this manner, even a sequence encoding only a fragment of the polypeptide can be used to generate antibodies binding the whole native polypeptide. Such antibodies can then be used to isolate the polypeptide from tissue expressing that polypeptide.
30 Moreover, a panel of such antibodies, specific to a large number of polypeptides, can be used to identify and differentiate such tissue.

VI. Examples

35 Certain aspects of the present invention are described in greater detail in the non-limiting Examples that follow.

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EXAMPLE 1

cDNA Sequences Determined by Random
Clone Selection: First set

5

METHODOLOGY:

With reference to the data presented in Table 1, lambda ZAP libraries were converted en masse to pBluescript plasmids, transfected into E. coli XL1-Blue cells, and plated on X-gal/IPTG/ampicillin plates. A total of 1058 clones were picked at random from three human brain cDNA libraries: fetal brain, two-year-old hippocampus, and two-year-old temporal cortex (Stratagene catalog #936206, 936205, 935, respectively. Stratagene, 11099 N. Torrey Pines Rd., La Jolla, CA 92037). An analysis of these clones is summarized in Table I (see below) In addition, clones selected from the hippocampus library were also analyzed after subtractive hybridization with the fibroblast library. These results are listed in the "Hippocampus Subtracted" column of Table 1.

Templates for DNA sequencing were PCR products or plasmids prepared by the alkaline lysis method. About half of the templates prepared by PCR failed to yield an amplified fragment suitable for sequencing. This was primarily due to use of PCR conditions that minimized the need for further purification of the product but also selected against amplification of long inserts (5 μ l fresh or frozen overnight culture of E. coli carrying the pBluescript plasmid, 7.5 μ M each dNTP, and 0.1 μ M each primer for 35 cycles: 94°C, 40 sec; 55°C, 40 sec; 72°C, 90 sec). A further percentage of the PCR-generated templates failed to sequence, largely due to primer-dimer or other amplification artifacts. Qiagen™ columns improved the percentage of plasmid templates, increasing the yields of usable sequence from about 60% with a standard alkaline lysis protocol to over 90%. Overall, 117 PCR-generated templates and 497 plasmid templates resulted in usable sequence. Dideoxy chain termination sequencing reactions were performed with fluorescent dye-labeled M13

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universal or reverse primers. After a cycle sequencing protocol, carried out in a Perkin-Elmer thermal cycler, sequencing reactions were run on an Applied Biosystems, Inc. (Foster City, CA) 373A automated DNA sequencer. (Cycle sequencing was performed in a Perkin Elmer Thermal Cycler for 15 cycles of 95°C, 30 sec; 60°C, 1 sec; 70°C, 60 sec and 15 cycles of 95°C, 30 sec; 70°C, 60 sec with the Applied Biosystems, Inc. Taq Dye Primer Cycle Sequencing Core Kit protocol). Some sequencing reactions were performed on an ABI robotic workstation (Cathcart, *Nature* 347: 310 (1990) hereby incorporated by reference).

RESULTS:

Singe-run DNA sequence data were obtained from 609 randomly chosen cDNA clones. The number of clones sequenced from each library is summarized in Table 1. Double-stranded cDNA clones in the pBluescript vector were sequenced by a cycle sequencing protocol with dye-labeled primers and Applied Biosystems, Inc. 373A DNA Sequences. The average length of usable sequence was 397 bases with a standard deviation of 99 bases.

Subtractive hybridization has been used successfully to reduce the population of highly represented sequences in a cDNA library by selectively removing sequences shared by another library. (Schmid and Girou, *Neurochem.* 48: 307 (1987); Fargnoli et al, *Anal. Biochem.* 187: 364 (1990); Duguid and Dinauer, *Nucl. Acids. Res.* 18: 2789 (1990); Schweinfest, et al, *Genet. Anal. Techn. Appl.* 7: 64 (1990); Travis and Sutcliffe, *Proc. Natl. Acad. Sci. USA* 85: 1696 (1988); Kato, *Eur. J. Neurosci.* 2: 704 (1990)). Subtractive hybridization was therefore tested as a way of enhancing the number of brain-specific clones in the hippocampus library by hybridizing the hippocampus library with a WI38 human lung fibroblast cell line cDNA library and removing the common sequences (Schweinfest et al, *Genet. Anal. Techn. Appl.* 7: 64 (1990); Sive and St. John, *Nucl. Acids Res.* 16: 10937

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(1988)). Clones from this subtraction are listed in the column "Hippocampus Subtracted" in Table 1.

The EST sequences from this Example 1 are identified as SEQ ID NOS 1-315.

TABLE 1. cDNA Library Composition Determined
By Random Clone Sequencing

EST Category	Hippocampus		Hippocampus Subtracted		Fetal Brain		Temporal Cortex	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Databases Match--Human	48	12.8	10	8.6	3	7.9	6	7.5
Mitochondrial Genes	39	10.4	14	12.2	6	15.8	0	0
Repeats: Alu, LINE-1, etc.	10	2.7	7	6.0	0	0	11	13.8
Ribosomal RNA	32	8.6	7	6.0	4	10.5	0	0
Other Nuclear Genes	32	8.6	7	6.0	5	13.2	4	5.0
No Database Match--Other	160	42.8	44	37.9	20	52.6	6	7.5
Poly A Insert	53	14.1	24	20.7	0	0	27	33.7
No Insert	1	0.3	3	2.6	0	0	26	32.5

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EXAMPLE 2

Sequencing of Additional ESTs: Second set

Over 2600 additional cDNA clones have been isolated, partially sequenced and screened. The clones were isolated from four human brain cDNA libraries. The new sequences thus discovered, together with the 315 brain ESTs from Example 1, correspond to over 2400 new human genes. These data represent an approximate doubling of the number of human genes identified by DNA sequencing.

Specifically, four cDNA libraries were used as sources of clones for sequencing. Human hippocampus and fetal brain libraries, plasmid template preparation, sequencing reactions, and automated sequencing were performed as described (Adams, M.D., Kelley, J.M., Gocayne, J.D., Dubnick, M., Polymeropoulos, M.H., Xiao, H., Merril, C.R., Wu, A., Olde, B., Moreno, R.F., Kerlavage, A.R., McCombie, W.R., & Venter, J.C. *Science*, 252: 1651-56 (1991)). A pooled probe consisting of inserts from 10 different EST clones with sequences that matched either mitochondrial genes or the 18S or 28S ribosomal RNAs was used to prescreen a gridded filter array of the hippocampus library; nonhybridizing clones are referred to as the "prescreened library". Another fetal brain library was constructed by and was a gift from Bento Soares (Columbia University). A directionally-cloned library was prepared using the method of Rubenstein, et al. (Rubenstein, J., Elizabeth, A., Brice, A., Ciaranello, R., Denney, D., Porteus, M. & Usdin, T. *Nucl. Acids Res.* 18: 4833-4842) using human adult brain mRNA purchased from Clontech (Palo Alto, CA; Catalogue # 6516-1). Of 482 clones analyzed by restriction enzyme digestion, 33% contained inserts at least 1500 base pairs in length. Stratagene hippocampus and fetal brain library totals include data from Adams et al *Science* 252: 1651.

Sequences of nuclear-encoded cDNAs that did not include interspersed repeats (Schmid, C. W. & Jelinek, W. R. *Science*

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216: 1065-1070 (1982); Paulson, K. E., Deka, N., Schmid, C. W., Misra, R., Schlinder, C. W., Rush, M. G., Kadyk, L., & Leinwand, L. *Nature* 316: 359-361 (1985); Fanning, T. G. & Singer, M. F. *Biochem. Biophys. Acta* 910: 203-212 (1987))

5 were searched against all of GenBank and, in 6-frame translation, against a comprehensive, non-redundant peptide database using the network BLAST (Altschul, S. F., Gish, W., Miller, W., Myers, E.W., & Lipman, D. J. *Mol. Biol.* 215: 403-410 (1990)) server at the National Center for

10 Biotechnology Information. BLAST output was parsed, and an interactive alignment editor was used to select which matches, if any, from each search to record in a relational EST database, which was developed to track sequencing, identification, tissue localization, physical mapping, and

15 the public distribution of the clones, mapping and sequence data. For significant similarities, a putative gene name and Protein Identification Resource (PIR) gene family identification (Barker, W., George, D., Hunt, L., & Garavelli, J. *Nucl. Acids Res.* 19 (Suppl): 2231-2236 (1991))

20 for the EST were assigned. ESTs without significant matches using BLAST were searched in translation against PIR using FASTA. Ten additional marginal matches were found. A total of 2300 new EST sequences comprising 765,505 nucleotides from the current data set have been submitted to GenBank and

25 assigned accession numbers M77851-M79278 and M85308-M86179. All ESTs except those multiply representing actin, tubulin, and myelin basic protein clones were submitted. ATCC accession numbers of cDNA clones from which ESTs were derived are 77501-78999 and 81000-81756. The Genome Data Base

30 expressed D-segment numbers for these clones are D0S1E - D0S2422E. The ESTs from this Example are identified herein as SEQ ID NOS 316-2407.

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EXAMPLE 3

EST Characterization: First Set

ESTs including SEQ ID NOs 1-315 were analyzed as follows. Initially, the EST sequences were examined for similarities in the GenBank nucleic acid database (GenBank Release 65.0), Protein Information Resource Release 26.0 (PIR), and ProSite (MacPattern from the EMBL data library, Fuchs R. *Comput. Appl. Biosci.* 7: 105 (1990) Release 5.0 were used). BLAST was used to search Genbank and the PIR (both maintained by the National Center for Biotechnology Information) ESTs without exact GenBank matches were translated in all six reading frames and each translation was compared with the protein sequence database PIR and the ProSite protein motif database. Comparisons with the ProSite motif database were done by means of the program MacPattern from the EMBL Data Library. GenBank and PIR searches were conducted with the "basic local alignment search tool" programs for nucleotide (BLASTN) and peptide (BLASTX) comparisons (Altschul et al, *J. Mol. Biol.* 215: 403 (1990)). PIR searches were run on the National Center for Biotechnology Information BLAST network service. The BLAST programs contain a very rapid database-searching algorithm that searches for local areas of similarity between two sequences and then extends the alignments on the basis of defined match and mismatch criteria. The algorithm does not consider the potential gaps to improve the alignment, thus sacrificing some sensitivity for a 6-80 fold increase in speed over other database-searching programs such as FASTA (Pegarson and Lipman, *Proc. Natl. Acad. Sci. USA*, 85: 2444 (1988)).

Sequence similarities identified by the BLAST programs were considered statistically significant with a Poisson P-value than 0.01. The Poisson P-value less than the probability of as high a score occurring by chance given the number of residues in the query sequence and the database.

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After the BLASTN search, 30 unmatched ESTs were compared against GenBank by FASTA to determine if significant matches were missed due to the use of BLASTN for the database search. No additional statistically significant matches were found. Statistical significance does not necessarily mean functional similarity; some of the reported matches may indicate the presence of a conserved domain or motif or simply a common protein structure pattern. Those ESTs identified as fully corresponding to known human genes or proteins are not included in this disclosure. Statistically significant matches are reported in Table 2, together with the length and percent identity or similarity of each alignment.

On the basis of database searches, 609 EST sequences were classified into eight groups as shown in Table 1 (see Example 1 above). Four groups, with 197 or 32% of the sequences, consist of matches to human sequences: repetitive elements, mitochondrial genes, ribosomal RNA genes, and other nuclear genes. Forty-eight (8%) of the sequences matched non-human entries in GenBank or PIR while 230 (38%) had no significant matches. The remaining 134 (22%) sequences contained no insert or consisted entirely of polyA between the EcoRI cloning sites.

Thirty-six ESTs matched previously sequenced human nuclear genes with more than 97% identity. Four of these ESTs are from genes encoding enzymes involved in maintaining metabolic energy, including ADP/ATP translocase, aldolase C, hexokinase, and phosphoglycerate kinase. Human homologs of genes for the bovine mitochondrial ATP synthase $F_0\beta$ -subunit and porcine aconitase were also found (Table 2). Brain-specific cDNAs included synaptophysin, glial fibrillary acidic protein (GFAP), and neurofilament light chain. At least six ESTs are from genes encoding proteins involved in signal transduction: 2',3'-cyclic nucleotide 3'-phosphodiesterase (2 ESTs), calmodulin, c-erbA- α -2, $G_s\alpha$, and Na^+/K^+ ATPase α -subunit. Other ESTs were matches to genes for ubiquitous structural proteins -- actins, tubulins, and

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fodrin (non-erythroid spectrin). ESTs also document the presence in the hippocampus cDNA library of the ret proto-oncogene, the ras-related gene rhoB, and one of the chromosome 22 breakpoint cluster region transcripts. Eight

5 ESTs are from genes known to be associated with genetic disorders (Online Mendelian Inheritance in Man). More than half of the human-matched ESTs from Example 1 have been mapped to chromosomes, indicating the bias of GenBank entries toward well-studied genes and proteins.

10 ESTs without significant GenBank matches were also compared to the ProSite database of recognized protein motifs. Not counting post-translational-modification signatures, fifty-four sequences contained motifs from the database. Some patterns, particularly the "leucine zipper",

15 are found in scores or hundreds of proteins that do not share the functional property implied by the presence of the motif.

Similarities to sequences from other organisms were also detected in the BLAST searches of GenBank and PIR (Table 2). Several ESTs displayed similarity to "housekeeping" genes,

20 including the ribosomal proteins S10 and L30 (rat) and the above glycolytic enzymes. EST00257 (SEQ ID NO:77) shows strong nucleotide sequence similarity to the squid (67%) and Drosophila (70.4%) kinesin heavy chain. Kinesin was first described as a microtubule-associated motor protein involved

25 in organelle transport in the squid giant axon (Vale et al, Cell 42: 39 (1985)). Six oncogene-related sequences were also among the cDNA clones sequenced. EST00299 (SEQ ID NO:180) and EST00283 (SEQ ID NO:271) show similarity to several ras-related genes and EST00248 (SEQ ID NO:102)

30 matched the 3' untranslated region of the bovine substrate of botulinum toxin ADP-ribosyltransferase. Similarities with an S. cerevisiae RNA polymerase subunit and Torpedo electromotor neuron-associated protein were also observed. Two ESTs may represent new members of known human gene families: EST00270

35 matched the three β -tubulin genes with 88-91% identity and

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EST00271 (SEQ ID NO:248) matched α -actinin with 85% identity at the nucleotide level.

Among the most interesting of the primary sequence relationships was the similarity of ESTs to the *Drosophila* genes Notch and Enhancer of split. Nucleotide and peptide alignments of EST00256 (SEQ ID NO:188) and EST00259 (SEQ ID NO:227) with the *Drosophila* genes have been demonstrated. Both genes are part of a signal cascade encoded by the "neurogenic" genes that are involved in the differentiation of neuronal and epidermal cell lineages in the neuroectoderm of the developing *Drosophila* embryo (Campos-Ortega, *Trends in Neuro. Sci.* 11: 400 (1988)). It has been proposed that the Enhancer of split protein interacts with a membrane protein that is the product of the Notch gene to convert a developmental signal into an altered pattern of gene expression (id. *J. Mol. Biol.* 215: 403 (1990)). EST00256 (SEQ ID NO:188) matches near the 5' end of the Enhancer of split coding sequence, away from the mammalian G protein β subunit- and yeast cdc4-like elements (Hartley et al, *Cell* 55: 785 (1988); Klambt et al. *EMBO J.* 8: 203 (1989)). Part of the EST00259 (SEQ ID NO:227) match to Notch in the cdc10/SW16 region that is similar to three cell-cycle control genes in yeast and is tightly conserved in the *Xenopus* Notch homolog, Xotch. In *Drosophila*, Enhancer of split is absolutely required for formation of epidermal tissue. Notch contains several epidermal growth factor-like repeats and appears to play a general role in cell-cell communication during development (Banerjee and Zipursky, *Neuron* 4:177 (1990)).

Seven genes were represented by more than one EST. Comparisons of all the ESTs against one another revealed two overlaps of unknown ESTs: EST00233 (SEQ ID NO:32) and EST00234 (SEQ ID NO:8) match in opposite orientations and EST00235 (SEQ ID NO:204) and EST00236 (SEQ ID NO:148) match in the same orientation beginning at the same nucleotide. Five human genes were represented by more than one EST: β -

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actin (3), λ -actin (2), α -tubulin (2), α -2-macroglobulin (2), and 2'3'-cyclic-nucleotide-3'-phosphodiesterase (2). Those few instances where two or more ESTs represent different portions of a single cDNA can be readily ascertained when the sequence of the full cDNA insert is determined in accordance with Example 13.

Example 4

EST Sequences Characterization: Second Set

The ESTs of Example 2, including SEQ ID NOs 316-2407, were screened against known sequences listed in GenBank and other databases, as in Example 3. The results are reported in Table 2. The quality of the match is given as percent identity and length in base pairs for nucleotide matches and amino acid residues for peptide matches. In many cases ESTs match multiple domains on several related proteins; for example, EST00825 matches two transmembrane domains on both GABA and Norepinephrine transporters. Nucleotide databases are: GenBank (GB), and EMBL (E); peptide databases are: GenPept (GPU), Swiss-Prot (SP), and PIR.

The great majority (83%) of the partial cDNA sequences reported in Example 2 are unrelated to any sequences previously described in the literature. Based on database matches to known genes from humans as well as from such evolutionarily distant organisms as *E. coli*, yeast, *C. elegans*, *Drosophila*, barley, *Arabidopsis*, rice, and green algae, we have preliminarily identified the functional type of a number of the ESTs (Table 2). These include a novel gene similar to Notch/Tan-1 (Adams et al., *supra*), a new neurotransmitter transporter gene, and a new member of the multi-drug resistance gene family. Several genes involved in development or cell differentiation in *Drosophila* are represented by similar human ESTs, including seven in *absentia* (Carthew, R. & Rubin, G. Cell 63: 561-577 (1990)),

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big-brain (bib) (Rao, Y., Jan, L., & Jan, Y. **Nature** 345: 163-167 (1990)), the discs tumor suppressor (Woods, D. & Bryant, P. **Cell** 66: 1-20 (1991)), and the homeotic gene orthodenticle (Finkelstein, R., Smouse, D. Capaci, T., Spradling, A. & Perrimon, N. **Genes. Dev.** 4: 1516-1527 (1990)). New members of gene families previously known in humans include a Ca^{+2} -transporting ATPase, an ADP ribosylation factor, and a new neural-cell adhesion molecule gene.

The 1971 ESTs without a putative identification were analyzed using the coding-region prediction program CRM via the GRAIL server (Uberbacher, E. & Mural, R. **Proc. Natl. Acad. Sci. USA** 88: 11261-5 (1991)). Fifteen percent of the unknown ESTs scored an excellent probability of containing protein-coding sequence. Fifty percent of the ESTs to known human genes contain protein-coding sequences, therefore, at most half of the unknown ESTs are likely to contain coding sequences. We have found no evidence that genomic DNA or cDNA to unspliced precursor RNA is a major contaminant of either the hippocampus or fetal brain library.

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Table 2: ESTs Identified by Database Matches

SEQ ID	EST#	Putative Identification	Accession	DB	Len	%ID
208	EST00250	60K filarial antigen	A28209	PIR	108	56.9
2320	EST01784	60K filarial antigen	A28209	PIR	88	50.6
969	EST01982	ADP-ribosylation factor 1	B33283	PIR	84	41.2
1834	EST01620	AMP deaminase, brain	A37056	PIR	57	100.0
97	EST00289	Aconitase	A35544	PIR	105	90.6
251	EST00370	Actin, other	S10021	PIR	44	51.1
248	EST00271	Actinin, alpha	HUMACTAR	GB	271	85.3
891	EST01891	Actinin, alpha	HUMACTAR	GB	315	81.6
1500	EST02538	Actinin, alpha	HUMACTAR	GB	271	75.0
132	EST00110	Agrin	RATAGR	GB	269	82.2
1852	EST01625	Agrin	RATAGR	GB	103	84.6
1094	EST02113	Ala	HUMALA	GB	92	82.8
691	EST00675	Alcohol dehydrogenase	RICGOS2G_1	GPU	38	59.0
2408	EST00244	Amyloid A4	HUMAFPA4	GB	135	91.9
1965	EST01664	Amyloid A4	A29030	PIR	52	54.7
2068	EST01694	Amyloid A4	QRHUA4	PIR	83	69.0
2092	EST01700	Anion exchanger homolog AE3	A33638	PIR	95	97.9
1880	EST01634	Axonal glycoprotein TAG-1	A34695	PIR	69	87.1
1492	EST02530	B cell-specific Mo-MLV integration site 1 (bmi-1)	MUSBM1A	GB	111	87.5
1277	EST02306	Bib protein	S09699	PIR	57	53.4
13	EST00255	Cadherins	CADN\$HUMAN	SP	41	45.2
1348	EST02378	cAMP-dependent protein kinase inhibitor	MUSPKI	GB	234	91.5
1931	EST01041	cAMP-regulated phosphoprotein	B35308	PIR	21	86.4
1413	EST02447	cAMP-specific phosphodiesterase	HUMPDEAA	GB	363	69.0
396	EST01443	CDPdiacylglycerol-serine O-phosphatidyltransferase	JH0368	PIR	33	41.2
1956	EST01663	Ca2+-transporting ATPase 2	B28065	PIR	125	88.9
1126	EST02146	Calbindin D28	RATCALBD28	GB	81	87.8
1039	EST02055	Calcium channel	S05054	PIR	33	67.6
1910	EST01645	Calmodulin	RATRCM1	GB	120	90.1
485	EST01466	Calmodulin-dependent protein kinase, type II, beta	A26464	PIR	93	98.9
913	EST01913	Clathrin coat assembly protein AP50 homolog	YSCYAP54_1	GPU	62	63.5
2004	EST01676	Cofilin	PIGCOFIL	GB	132	89.5
2400	EST01824	Cysteine-rich intestinal protein	GYRTI	PIR	56	66.7
1588	EST02633	D2223 repetitive DNA	HUMREP	GB	160	76.4
2192	EST01257	Diacylglycerol kinase, lymphocyte	S09156	PIR	44	42.2
1441	EST02477	Diamine acetyltransferase	ATDA\$HUMAN	SP	74	45.3
650	EST00642	Dilute (myosin heavy chain)	MUSDILUTE_1	GPU	27	100.0
2302	EST01779	Discs-large tumor suppressor	DRODLGA_1	GPU	53	63.0
188	EST00256	Enhancer of split	A30047	PIR	86	58.6
2289	EST01325	Fatty acid synthase	RATFAS	GB	98	79.8
310	EST00377	Fo ATPase beta subunit, mitochondrial	BOVMTASB	GB	293	85.4
1332	EST02362	GA binding protein, beta subunit	MUSGAC_1	GPU	86	90.8
1667	EST00825	Gamma-aminobutyric acid transporter	A35918	PIR	26	59.3
2217	EST01738	Gelation factor ABP-280	A37098	PIR	74	80.0
1412	EST02446	Glutamate-aspartate carrier protein	JV0092	PIR	57	37.9
1020	EST02034	Glutaminase	GLS\$RAT	SP	34	74.3
1885	EST01639	Histocompatibility antigen modifier 1	A37779	PIR	63	75.0
1495	EST02533	Hypothetical 43.5K protein	JU0319	PIR	43	52.3
2326	EST01791	Inositol-1,4,5-trisphosphate 3-kinase	JN0129	PIR	65	68.2
SEQ ID	EST#	Putative Identification	Accession	DB	Len	%ID

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724	EST01529	Interferon-induced 54K protein	INI4\$HUMAN	SP	76	70.1
1035	EST02051	J1 protein	MUSJ1PRO	GB	362	85.7
1229	EST02258	KUP protein	HUMKUPMR_1	GPU	54	36.4
993	EST02007	Kinase 5 protein	CHKCEK5_1	GPU	68	94.2
77	EST00257	Kinesin	A35075	PIR	57	86.2
78	EST00258	Kinesin	A35075	PIR	62	47.6
2245	EST01748	Kinesin	A35075	PIR	98	52.5
2282	EST01764	Lamin B receptor	A36427	PIR	76	71.4
2173	EST01724	Lon protease	JO0901	PIR	103	41.3
1427	EST02463	Long-chain-fatty-acid-CoA ligase	A36275	PIR	36	62.2
313	EST00276	Lysosomal membrane glycoprotein 1 (LAMP-1)	A31959	PIR	53	46.3
161	EST00247	MARCKS (myristoylated alanine-rich protein kinase	BOVMARCKS	GB	139	83.6
1386	EST02418	MARCKS homolog	MMF52	EU	237	92.4
769	EST00734	MARCKS homolog	S08341	PIR	61	40.3
43	EST00371	Maternal G10 protein	S05955	PIR	38	92.3
1468	EST02505	Matrin 3	RATMATRIN3	GB	137	93.5
639	EST00632	Membrane transport superfamily (GTP-dependent)	A24400	PIR	63	39.1
1894	EST01643	Membrane transport superfamily (GTP-dependent)	A24400	PIR	71	50.0
824	EST01865	Microtubule-associated protein 1B	RATNEU	GB	293	86.4
223	EST00368	Microtubule-associated protein 1B	A33645	PIR	30	54.8
2032	EST01683	Microtubule-associated protein 1B	A33645	PIR	49	62.0
2017	EST01678	Milk fat globule membrane protein	A36479	PIR	48	61.2
1704	EST01580	Myeloid differentiation primary response gene MyD1	MUSMYO118_1	GPU	76	88.3
2226	EST01744	NAD(P)+ transhydrogenase (B-specific)	DEBOXM	PIR	86	93.1
1567	EST02610	Neural cell adhesion molecule L1	S05479	PIR	82	43.4
506	EST01471	Neuraxin	S06017	PIR	120	84.3
1566	EST02609	Neutrophil oxidase factor	A34855	PIR	43	47.7
952	EST01961	Notch/Xotch	HUMTAN1_1	GPU	85	57.0
227	EST00259	Notch/Xotch	A35844	PIR	74	85.3
1395	EST02429	Nuclear factor 1-like protein (NF1)	HAMNF1A	GB	111	92.0
1681	EST01573	Nucleoside diphosphate kinase	A33386	PIR	71	52.8
346	EST01828	Otd homeotic protein	A35912	PIR	35	52.8
2254	EST01751	Phosphatidylinositol-4,5-bisphosphate phosphodiesterase	A28807	PIR	40	90.2
1869	EST00992	Polymyxin B resistance	A32714	PIR	20	76.2
93	EST00287	Processing enhancing protein	S03968	PIR	96	58.8
2353	EST01806	Prohibitin	RATPROHIB_1	GPU	120	97.5
2297	EST01775	Prohormone cleavage enzyme	MUSMPC1A_1	GPU	91	93.5
9	EST00376	Prolyl endopeptidase	PIGPREP	GB	223	83.9
1069	EST02087	Protein kinase C, zeta	HUMPKCL	GB	382	58.7
1933	EST01650	Protein phosphatase 2A beta subunit	HUMPROP2AB	GB	288	76.8
202	EST00298	Protein-tyrosine phosphatase LRP	LRP\$MOUSE	SP	62	44.4
1654	EST01572	Protochlorophyllide reductase	S04783	PIR	34	57.1
38	EST00374	RNA polymerase II 6th subunit (RPO26)	A36352	PIR	72	75.3
1478	EST02515	Rab5	F34323	PIR	91	82.6
2368	EST01389	Radial spoke protein 3	S05962	PIR	58	52.5
37	EST00038	ras p21-like small GTP-binding protein (smg GDS)	BOVSMGGOS	GB	131	89.4
180	EST00299	ras-related proteins	S10493	PIR	51	46.1
1700	EST01579	Retrovirus-related gag polyprotein	FOHUE2	PIR	95	77.1
1511	EST02550	Retrovirus-related pol polyprotein	GNLJGL	PIR	50	54.9
102	EST00248	rho H12/ ARH12	BOVBGBRH	GB	195	79.6
1715	EST01583	Ribosomal protein L18a	R5RT18	PIR	68	95.7
SEQ ID	EST#	Putative Identification	Accession	DB	Len	%ID

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1856	EST01627	Ribosomal protein L1a	A24579	PIR	75	63.1
1974	EST01667	Ribosomal protein L3	JQ0771	PIR	74	80.0
301	EST00300	Ribosomal protein L30	R6RT30	PIR	57	96.5
22	EST00301	Ribosomal protein S10	R3RT10	PIR	66	97.0
2402	EST01826	Ribosomal protein S10	R3YM10	PIR	36	51.4
463	EST01459	Ribosomal protein YL10	S11581	PIR	40	68.3
1408	EST02442	Seven in absentia	A36195	PIR	46	80.8
299	EST00249	smg p25A GDP dissociation inhibitor	A35652	PIR	97	77.5
951	EST01960	Spectrin, beta	HUMSPTB	GB	268	67.7
2089	EST01699	Sperm membrane protein	A35981	PIR	52	58.5
2073	EST01697	Succinate dehydrogenase flavoprotein	BOVSDHFP1_1	GPU	44	100.0
2138	EST01715	Succinate dehydrogenase flavoprotein	BOVSDHFP1_1	GPU	49	92.0
430	EST00472	Synaptotagmin (p65)	SY65\$HUMAN	SP	27	53.6
1371	EST02402	Talin	MUSTALINR.1	GPU	79	81.2
1771	EST01601	Thiosulfate sulfurtransferase (rhodanese)	ROBO	PIR	65	81.8
300	EST00232	Transforming protein (dbl)	TVHUBD	PIR	25	65.4
189	EST00282	trkB	A35104	PIR	33	67.6
653	EST01512	Tubulin, alpha	HUMTUBAG	GB	223	75.0
594	EST01490	Tubulin, beta	HUMTBB5	GB	298	93.6
757	EST01542	Tubulin, beta	HUMTUBBM	GB	217	90.4
1245	EST02274	Tubulin, beta	A26561	PIR	105	88.7
1147	EST02169	Tyrosine kinase	HUMECK	GB	384	74.3
1701	EST00853	Unc-104	JN0114	NR	36	45.0
2121	EST01711	Valine-tRNA ligase	A29871	PIR	56	57.9
187	EST00152	Wilm's tumor-related protein	HUMQM	GB	228	99.6
1726	EST01588	XPR2 alkaline extracellular protease	B26955	PIR	88	46.1
249	EST00275	Zinc Finger Proteins	S06551	PIR	25	57.7
413	EST01446	Zinc Finger Proteins	S00754	PIR	45	60.9
469	EST01460	Zinc Finger Proteins	C32891	PIR	34	54.3
833	EST01560	Zinc Finger Proteins	S00754	PIR	105	67.0
1230	EST02259	Zinc finger proteins	S00754	PIR	71	62.5
1496	EST02534	Zinc finger proteins	A34612	PIR	50	45.1
2324	EST01352	Zinc Finger Proteins	S10397	PIR	29	56.7

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There is little redundancy in EST sequencing according to the present invention. Of the nuclear-encoded messenger RNAs, the most common ESTs were to the β -actin (0.6% of the EST clones) and myelin basic protein genes (MBP, 0.5% of the clones). MBP, a highly expressed structural component of nerve tissue (Kamholtz, J., de Ferra, F., Puckett, C., & Lazzarini, R. *Proc. Natl. Acad. Sci., USA* 83: 4962-4966 (1986)), displays four alternate splicing forms, of which at least two are present among the ESTs reported here. Other common ESTs were Gs-alpha gamma-actin and both a- and alpha-tubulin.

By matching ESTs to known database sequences, a phenotypic characterization of the tissue begins to emerge. Protein superfamilies matched by ESTs were grouped into three broad functional categories to assess the biological spectrum represented by these randomly selected cDNA clones. Structural and metabolic classes comprised about 30% of the ESTs with database matches. Twenty-five percent were involved in regulatory pathways and the remainder were not classifiable. Eleven of the eighteen enzymes of glycolysis and the citric acid cycle are represented by at least one subunit or isozyme. In addition, several genes not previously known to be expressed in the brain were matched, including spermine/spermidine acetyltransferase (Casero, R., Celano, P., Ervin, S., Applegren, N., Wiest, L. & Pegg, A. *J. Biol. Chem.* 266: 810-814 (1991)) and osteopontin (Young, M., Kerr, J., Termine, J., Wewer, U., Wang, M., McBride, W. & Fisher, L. *Genomics* 7:491-502 (1990)).

EXAMPLE 5

Mapping of ESTs to Human Chromosomes

Randomly selected ESTs corresponding to SEQ ID NOs. were assigned to chromosomes via PCR (see Table 3). Oligonucleotide primer pairs were designed from EST

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sequences to minimize the chance of amplifying through an intron. The oligonucleotides were 18-23 bp in length and designed for PCR amplification using the computer program INTRON (National Institutes of Mental Health, Bethesda, MD). The program is based on the assumptions that: 1) introns are genomic sequences that interrupt the coding and noncoding sequences of genes (Smith, J. Mol. Evol. 27:45-55 (1988)); 2) there are consensus sequences for splice junctions (Shapiro, et al., Nucl. Acids Res. 15:7155-7174 (1987)); and 3) that 90% of the human genes studied have 3' untranslated regions of mRNA not interrupted by introns in the genomic DNA (Hawkins, Nucl. Acids Res. 16:9893-9908 (1988)).

The program evaluates the likelihood that a given GG or CC dinucleotide represents a former exon-intron boundary. Specifically, every input strand is processed by the INTRON program twice, first evaluating the sense mRNA strand, and then processing the complementary or anti-sense strand. The program evaluates each sequence by finding all GG or CC pairs (possible former splice sites), searching for STOP codons in all three reading frames, and analyzing the GG or CC pairs surrounded by stop codons. All regions of the EST that are unlikely to contain splice junctions based on CC content, GG content, and stop codon frequency are then marked by the program in uppercase.

The creation of PCR primers from known sequences is well known to those with skill in the art. For a review of PCR technology see Erlich, H.A., PCR Technology; Principles and Applications for DNA Amplification, 1992. W.H. Freeman and Co., New York. ESTs were examined for the presence of stop codons in each reading frame and for consensus splice junctions. The presence of stop codons and absence of splice junction sequences are more characteristic of 3' untranslated sequences than of introns. The untranslated sequences are unique to a given gene; thus, primers from

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these regions are less likely to prime other members of a gene family or pseudogenes.

The primers were used in polymerase chain reactions (PCR) to amplify templates from total human genomic DNA. PCR conditions were as follows: 60 ng of genomic DNA was used as a template for PCR with 80 ng of each oligonucleotide primer, 0.6 unit of Tag polymerase, and 1 uCi of a ³²P-labeled deoxycytidine triphosphate. The PCR was performed in a microplate thermocycler (Techne) under the following conditions: 30 cycles of 94°C, 1.4 min; 55°C, 2 min; and 72°C, 2 min; with a final extension at 72°C for 10 min. The amplified products were analyzed on a 6% polyacrylamide sequencing gel and visualized by autoradiography. If the size of the resulting product was equivalent to the EST from which the primers are derived, then the PCR reaction was repeated with DNA templates from two panels of human-rodent somatic cell hybrids; BIOS PCRable DNA (BIOS Corporation) and NIGMS Human-Rodent Somatic Cell Hybrid Mapping Panel Number 1 (NIGMS, Camden, NJ).

PCR was used to screen a series of somatic cell hybrid cell lines containing defined sets of human chromosomes for the presence of a given EST. DNA was isolated from the somatic hybrids and used as starting templates for PCR reactions using the primer pairs from EST sequences selected above. Only those somatic cell hybrids with chromosomes containing the human gene corresponding to the EST will yield an amplified fragment. ESTs were assigned to a chromosome by analysis of the segregation pattern of PCR products from hybrid DNA templates. For a review of techniques and analysis of results from somatic cell gene mapping experiments. (See Ledbetter et al., *Genomics* 6:475-481 (1990).) The single human chromosome present in all cell hybrids that give rise to an amplified fragment represents the chromosome containing that EST.

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The assignment of 100 ESTs and corresponding genes to chromosomes by PCR is shown in Table 3.

Table 3: Assignment of ESTs to Chromosomes by PCR

SEQ ID	EST#	Chr	PRIMER #1	PRIMER #2
5	EST00012	1	TCCAGGCAATCCCAGAATAG	CTAATTGAGCTCACTGGCCC
57	EST00058	1	CTGTTTGCAAGTTTCAAAGC	GCCATTTCTAACAACCAGAG
64	EST00066	1	GCCATTGTGCTGAATAGAGT	GTTAGTGTTCCTTAGCAAG
83	EST00079	1	CAGCTAATTGACCTGGGCTA	CAACATGCTCTGAGCTTTAG
83	EST00079	1	GGCAGAGCATAAATGAGTATA	CATATGCATATGGTCCCTAT
91	EST00086	1	AGTTTATGATGGAGGGCTGTC	TCTGCCCTAATGCGCAGGCT
105	EST00365	1	CTTAATCACCTCCCTTTTGT	CCTTAGTTGGAGATAAGGTC
109	EST00095	1	AGTCTAATCCTGTACACTTG	CGGGCTTTCTCTGAATTGGT
116	EST00100	1	TTAGAAGTGCCCATGGGAGG	TTTTAAGGCTCTGGAGTGTT
141	EST00118	1	CTCAGAGAACTTAGGTGAA	CTACAGAATCATTTACCAG
220	EST00372	1	AAGTTGCACATTGCCCAAGG	ATAGTACTGCAAGGTTATT
237	EST00187	1	TTACAAATTTCTCTTGACGC	CTGAAGGAGCACAGTTTCTC
242	EST00192	1	GGATCAGATAATCAAACAGG	GCTTAGGATATGAATGCATA
259	EST00202	1	GCATCACAGTTTAACTGAGG	CTACATATTTGTGCTCCTT
269	EST00293	1	CTGTTGCTGTGCAGTAGCTT	CTTTTGACCCAGTGAAACTT
299	EST00249	1	GATCATGCAGACGTAGATAT	CCAACCTCTGCCAGATCATT
1651	EST00810	1	TAGTCGCTGTAAGTTGATT	GCTTTGCTGGATGCTTCATT
16	EST00021	2	CAGGCAAGTTTCTCCAGGA	TCAGACCCATGGTCAGCTT
1898	EST01013	2	GGCTGAGAACGGTTAGCATA	CCCTCAGCTTAGGGGAATG
8	EST00234	2	TAGAAGGCAAACTATGTCCC	GGTTGAGGATTGGCTTTTAC
36	EST00037	2	AGCCAGAAGGCTGCTTAAAG	GCAGTGAACCAAGTACTCCTA
123	EST00106	2	GTCTAATTTGTAACTTCAG	GATAGATTGTATAAGAAGCC
192	EST00155	2	GATTTATGTCTGGGAACATA	GCAGCATGTGAAAGAATGAT
200	EST00162	2	TTTAATGGGTGGTGGGAGCT	CGATGCACATCCTTCTCCAT
284	EST00216	2	CCTAAGAATTCGTTTGGCTC	GTCTGGCACATAATAGATTG
102	EST00248	3	ATACTACATCTAGTCTGG	TTACAGTCTCTGTGGTTTC
167	EST00138	3	AAACAGCTGCGGAGTACA	AAAGGATCCTCCACTCCAGA
12	EST00274	3	CCTAGCAAACCTATACACAC	CATAAGTGAATGGACACAGG
60	EST00062	3	ACACATTAAACGGTGCTGCAG	GGAAATCAGCCCTTGAGGACT
77	EST00257	3	AAGCTCACAACGCAGATCTG	CTGGAACAGCTTACAAAGGT
107	EST00093	3	ATTGAACTCTGTCAACAGTG	TGTAAACAAAGGCCAAACT
108	EST00094	3	AL2 - GCAGGATGTCAGTCTTTTGAG	AGCACACATTATCTACCACGGC
1706	EST00857	3	AL2 - GCAGGATGTCAGTCTTTTGAG	CCAGCACACATTATCTACCACG
37	EST00038	4	AACTTCGAGTCATGAGAAC	TGTATCGGGCAGTTCTCAG
6	EST00013	4	CACATGTTCTCCCTCTTTCA	GCATTTTGGAGCTCTTCCGT
37	EST00038	4	AL2 - GGAAGTACAGGATTGGC	TTAGAGATGGGATGATGCCG
31	EST00033	5	TGGGTACCTAAGGTGTTTG	GACTAATCTAAGGTCTAGG
28	EST00030	5	AGATAAGTTAGGAAGCTGGT	ACTCACTGCTAGTATCATCC
59	EST00061	5	AAAGTTTCTTAGCACCCCCC	CAGACTTTGACAAAAGAATC
74	EST00073	5	ATCAGACACGTGGCAGGGTT	AAGTCCCTGAGGGTGCAGAA
121	EST00104	5	TGAAGGCAGCTGCTAAATCT	GGATGTATTGATCTGACTCA
149	EST00123	5	ATACTGTCAACGGAGGGTGA	GTCTGCAGGTTTCTCCTTGA
235	EST00185	5	TTACTGTCCCATCAGATATC	TACACTCTTAAGAAGGTATG
1643	EST00803	5	GAGCGTTTAAAAGAGATTCT	TACAGACAGCCATGTTCCAA
1677	EST00835	5	AL2 - TCTCCAACACAGTCATGC	CGGATGCCATCATATACC
23	EST00026	5	CCTGCAGTGACACTTAACAT	CTGCTCACCTGAAATTGATAC
121	EST00104	5	AL2 - CAGATCAATACATCCTCTGGG	CTGTGCAGTGGTGAGTAAAAGG

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SEQ ID	EST#	Chr	PRIMER #1	PRIMER #2
1	EST00007	6	TAGTTGATGGTCTGGGTTAT	GAAATCCCAGGGAGACAATG
19	EST00023	6	CAACTTACATTAGGGGTTTG	GACCTCATTAGAAGAGCCCA
155	EST00129	6	GGAAGCTGCCATATAAGCTC	TCAGTGTCTGACAACTCTACC
224	EST00356	6	GCTGTATGTTAACCCTTTGT	TGGAACCCCTCAAACACTGCT
288	EST00219	6	ACTTTCATGTTGAGAAGTAT	ATCTAGCTGAAACATTGCTG
1638	EST00798	6	CTTCATCTGTTAACTGTTGA	TGAAAATGAGTACACAGGCAG
1675	EST00833	6	AL2 - ACCCAGTCTCAAAGACC	GGTTTACCATTACAGAGGC
22	EST00301	6	CTCCGTGATTACCTTCTCTCT	TTGTAGGTATCTCTGTCAGCT
207	EST00167	7	GGTGCTACTTTGTGAATGCT	AGCAATGTGATTTTGTAGG
137	EST00272	7	AGTGGTCACTATCTACATGG	GATTTCAGAACTACTAAGCCG
1659	EST00817	7	TGTATAGGCTCTACATAAAG	CTTAATCATGGATTCTTCGT
1680	EST00838	7	AL2 - GTTCTTTCCAGGTATGC	TTGTTGGTACTGAGGAAGTGCC
292	EST00223	8	TGCAGCAGTGACCATGAGAA	ATCATCTTTCCACGCGGCTT
134	EST00375	9	TCTGGGCTTCTGTGGTTCAA	CTGGCTGCTCAGCAACTCAT
1906	EST01021	9	GGATGTTTTCTATGTACGA	TTCCAGTGCCCTTTTGTCC
1645	EST00804	10	CTCCTTTGGGACAAACAAC	CCAACCCAAACATATTCTA
20	EST00024	10	AGCTGTTCCCTGAGAGATGCA	CCTTGTGAAGAAAGACTTTC
157	EST00131	10	TCAGCAACAGGTCACTTTGG	CTAAGCATCTGCATGTCCAG
172	EST00142	10	TACTAGCATTCTTACTCTC	TATGCTGATTGTTTGCACCT
250	EST00197	10	GGTGATTAGAGAGTCTGTTG	GAACTCTGTAGTGTCTAAA
133	EST00111	11	GGAAATTAGGCTTAGCTCAC	GTGCAGAACTCTAGAGTCC
178	EST00294	11	GTTTGAAGGAAGTGATTCC	TAGGGCCACTCCAGTTCAT
10	EST00016	11	GTCTTTGGATTCTACGTAGA	CGATAATGACATTTCTCTGG
126	EST00109	11	AL2 - CTAACCACAACCACACATTG	CCTCAGCACAAGAGAGAATGG
7	EST00014	12	AACCTTGCAACATAAATACTAG	GAGCAATGATTTCTAACAGT
254	EST00200	13	TTGTGTAAGTGTCTGATAGAC	TAAGCCATGGGCATCTATAA
2409	EST00273	13	GCAAGATGATGGAACATCCC	TTCTTTCTGGAGGCTCTACA
170	EST00295	14	GGTGCTTAAGGCCACTTTTG	CTTAGAGGATCATAGGCTG
255	EST00201	14	CCAGGAGAGTAAGAAGATCA	GCAGAGTTGAATATGAACCT
290	EST00221	14	GTGCCAAGATGGCTCATGTA	GTATAGCTTTAAGCCAGTTC
293	EST00224	14	AATGCATTATGCCTGGTCTT	GGAAAAGTCTAGAAGTCTAGT
1664	EST00822	14	GGGTCAGAAATTAAGAGGTCT	GTTTCATCTCTAACTCCTTTC
315	EST00008	14	AAGCTGGCTGGGAAATGTTT	GTCTATGCTAGTAACTTACAC
1689	EST00845	14	AL2 - AGGAGGAAGCTGAAATCC	GGAAGTCCATAAGAGACTCACC
95	EST00088	15	GTGACAGACCATGTCTATTG	AAGTGAGCGATTGCACCTTC
205	EST00165	15	AGGATGACCTGAGTGAGCTG	CCATGGCAGCAAGGAACCTCT
33	EST00034	16	TGTGTGAAAGGGAGTCTTGT	CCATTTTGAAGTCTTCCATAG
247	EST00279	16	TGGCTAGGGCAGGCCTTAAA	GAGAAGAATATCAAAATGGGG
18	EST00373	16	CCATCTGTGTCCCAATTAAGC	AGGGAAGAAGTCTAGAGCGA
68	EST00068	17	CAAAGACGGGAGACGAATGA	AGTGGAACGCGTGGCCTATG
1652	EST00811	17	GAGCTGCATGTTGATAAGTA	TTGACTTAAGCTGACCTTAA
1702	EST00854	17	AL2 - TTGCTGTGGAATCCATGAGAG	GGCAAGTGATCTGTTCTTGG
84	EST00080	19	AGAGATGTCACTCCATTATC	CTATTCCACCTTACTCAAGG
223	EST00368	19	CATCATGTCTCGAGACGCATT	TGGATGACCTGAGTCTGCAG
21	EST00025	20	AGTTCTGGAGGCTAGGAGTT	ATGTAAGGACCCCTAGATGG
210	EST00168	20	TGTCAACTTCCCTTTGGCCT	GAAGCTTGCTCATTACAGGAA
136	EST00113	20	AL2 - TCGGAGAAGTTGCAGTTTCTG	GTTAAAGCTGTTAGACGGGGC
120	EST00103	22	CAGTGACTGACTCCTCTTTA	GGAACCGTAACTCTCCATAG
313	EST00276	X	ATTGACCTTCAATGTAATAA	TTGGATTGGGCAAAATAG

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<u>SEQ ID</u>	<u>EST#</u>	<u>Chr</u>	<u>PRIMER #1</u>	<u>PRIMER #2</u>
162	EST00133	X	ATGTGAGCATCTATACCTGC	AATGAAGGCATGAGAATAGG
1669	EST00827	X	CGGACAACCTAGGATAAATGC	TACGCGTTTGAATGGCTTGA
1917	EST01029	X	GAATAGCATTATTAGCCAGT	GGACCTATTGGAGATCTACT
1708	EST00858	X	AL2-AAGGCGAGGATTATGTGC	TTCTACTGGGTACACTTCGACC

Abbreviation: AL2: Amino-Link-2 Fluorescent Tag, Chr.: Chromosome.

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The foregoing techniques have been used to further localize 9 ESTs and their associated genes to precise locations onto chromosome 6 or chromosome X, as reflected in Table 4A (in Example 7 below), using sublocalization techniques that employ somatic cell hybrids. ESTs were used as hybridization probes and mapped to other chromosomes using techniques disclosed in Example 7. Somatic cell hybrids were prepared that contained defined subsets of chromosomes 6 and X. Methods for preparing and selecting somatic cell hybrids are known in the art. For a review of an exemplary procedure to generate somatic cell hybrids containing the short arm of human chromosome 6, see Zoghbi, et al., *Genomics* 9(4):713-720 (1991). For a general review of somatic cell hybridization see Ledbetter et al. (*supra*). The hybrids were processed to obtain DNA and analyzed by PCR and by fluorescence in situ hybridization. SEQ ID NOs 19, 22, 1, 224, 288 mapped to chromosome 6, while SEQ ID NOs 162, 1917, 1699 and 1899 mapped to chromosome X using somatic cell hybrids.

EXAMPLE 6

Mapping of All ESTs to Human Chromosomes

The procedure of Example 5 is repeated for all of the ESTs from Examples 1 and 2 not previously mapped to human chromosomes. Data are generated corresponding to the data in Table 3 for all of the unmapped ESTs. As previously mentioned, virtually all of the ESTs will map to a unique chromosomal location. The inability of any ESTs to localize to a unique location will be readily ascertainable during the mapping process.

Physical mapping of the type reported in Table 4 on all the EST clones reported here would provide human chromosome markers spaced on average every 1.2 megabases and would roughly double the number of expressed sequences that have been localized to chromosomes (McKusick, V. *FASEB*

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J. 5: 12-20 (1991)). Mapped ESTs are also a new resource to identify candidates for the estimated 5000 single-locus disease-associated genes (Id.).

EXAMPLE 7

5 Alternative Technique for Mapping to Chromosomes
 Mapping of ESTs to chromosomes using fluorescence in situ
 hybridization

 This technique was used to map an EST to a particular location on a given chromosome. Cell cultures, tissue, or
10 whole blood were used to obtain chromosomes.

 0.5 ml. of whole blood was added to RPMI 1640 and incubated 96 hours in a 5%CO₂/37°C incubator. 0.05 ug/ml colcemide was added to the culture one hour before harvest. Cells were collected and washed in PBS. The suspension was
15 incubated with a hypotonic solution of KCl added dropwise to reach a final volume of 5 ml. The cells were spun down and fixed by resuspending the cells in methanol and glacial acetic acid (3:1). The cell suspension was dropped onto glass slides and dried.

20 The slides were treated with RNase A and washed then dehydrated in a series of increasing concentrations of ethanol.

 The EST to be localized was nick-translated using fluorescently labeled nucleotide (Korenberg, Jr., et al.,
25 Cell 53(3):391-400 (1988)). Following nick translation, unincorporated label was removed by spin dialysis through Sepharose. The probe was further extracted with phenol-chloroform to remove additional protein. The chromosomes were denatured in formamide using techniques known in the art and the denatured probe was added to the slides. Following
30 hybridization, the cells were washed. The slides were studied under a fluorescent microscope. In addition, the chromosomes can be stained for G-banding or Q-banding using techniques known in the art.

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The resulting metaphase chromosomes had fluorescent tags localized to those regions of the chromosome that were homologous to the EST. Thus, a particular EST was localized to a particular region on a given chromosome. In this manner, SEQ ID NOs 396, 485, 506, 1880 and 1894 were mapped using fluorescent in situ hybridization to locations on chromosomes 17, 7, 10 and 1 respectively (See Table 4B below). For a review of the technique see Verma et al., **Human Chromosomes: A Manual of Basic Techniques**. Pergamon Press, NY (1988), which is hereby incorporated by reference.

Table 4: Precise Chromosomal Localization of ESTs

	SEQ ID	EST#	Map Location
	-----	-----	-----
	A.		
	19	EST00023	6p
15	22	EST00301	6p
	1894	EST01643	6p21
	1	EST00007	6q
	224	EST00356	6q
	288	EST00219	6q
20	162	EST00133	Xp11.21 - Xp21.2
	1917	EST01029	Xp11.21 - Xp21.2
	1669	EST00827	Xq26 - Xq27.1
	1899	EST01014	Xq28
	B.		
	1880	EST01634	1q32
25	485	EST01466	7p13
	506	EST01471	10q11.2
	396	EST01443	17q25

EXAMPLE 8

Automated DNA Sequencing Accuracy

ESTs that match human sequences in GenBank are excellent tools for the analysis of the accuracy of double-strand automated DNA sequencing. Ninety EST/GenBank matches were examined for the number of nucleotide mismatches and gaps required to achieve optimal alignment by the Genetics Computer Group (GCG) program BESTFIT (Devereux et al, **Nucleic Acids Research** 12: 387 (1984)).

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The number of mismatches, insertions and deletions was counted for each hundred bases of the sequence (Table 5). As expected, the sequence quality was best closest to the primer and decreased rapidly after about 400 bases. The number of deletions and insertions relative to the GenBank reference sequence increased five- to ten-fold beyond 400 bases, while the number of mismatches doubled. The average accuracy rate for individual double-stranded sequencing runs was 97.7% to 400 bases.

TABLE 5. Accuracy Of Single-Run Double-Stranded Automated Sequencing

<u>Bases from Primer</u>	<u>Mismatches/ Ambiguities</u> ⁺	<u>Gaps Insertions</u> ⁺	<u>Percent Deletions</u> ⁺	<u>Aligned Accurate</u>	<u>Bases</u>
101 - 200	1.45	0.18	0.19	98.2	8,800
201 - 300	1.72	0.25	0.11	97.9	8,130
301 - 400	2.07	0.98	0.37	96.6	5,404
>400	3.53	2.63	1.06	92.8	3,197

ESTs statistically identical to known human sequences and those matching mitochondrial and ribosomal genes were aligned with sequenced from GenBank using the GCG program BESTFIT. The first 85 nucleotides was polylinker sequence which was not aligned with the pBluescript SK reference sequence. Tabulation of errors began 15 bases into the BESTFIT alignment and thus is reported beginning with bases 101-200. ⁺Error rates are reported as number of mismatches, insertions, or deletions per hundred aligned bases. "Mismatches" includes ambiguous base calls.

EXAMPLE 9

Probability of ESTs Containing Coding Sequences

The ESTs of the present invention were statistically evaluated using the coding-region prediction program CRM via the GRAIL server (Uberbacher, E. & Mural, R. Proc. Natl. Acad. Sci. USA, 88: 11261-5 (1991)). The CRM program uses a neural network to combine results from several different coding regions by looking at different 6 bp sequences found in coding exons and in introns. The program additionally conducts reading frame searches and assesses randomness at the third position of codons. This protocol categorizes sequences as having an excellent, good, marginal, or poor probability of containing coding regions. The results are reported in Tables 6-9. There were 219 ESTs categorized as "excellent" (Table 6); 120 categorized as "good" (Table 7); 113 categorized as "marginal" (Table 8); and 1743 categorized as "poor" (Table 9). These results indicate that most ESTs of the present invention comprise noncoding regions.

Table 6: ESTs with Excellent Probability of Containing Coding Sequence

SEQ ID#	EST#				
7	EST00014	973	EST01987	1807	EST00941
15	EST00020	979	EST01993	1809	EST00943
48	EST00291	980	EST01994	1820	EST00951
62	EST00064	986	EST02000	1829	EST00958
66	EST00067	1000	EST02014	1849	EST00975
75	EST00074	1004	EST02018	1860	EST00983
98	EST00260	1007	EST02021	1866	EST00989
106	EST00092	1018	EST02032	1871	EST00994
108	EST00094	1021	EST02035	1888	EST01005
114	EST00098	1034	EST02050	1890	EST01007
115	EST00099	1047	EST02063	1892	EST01009
124	EST00107	1090	EST02109	1903	EST01018
128	EST00252	1096	EST02115	1904	EST01019
156	EST00130	1115	EST02135	1914	EST01026
164	EST00135	1118	EST02138	1930	EST01040
166	EST00137	1129	EST02149	1944	EST01050
174	EST00296	1133	EST02153	1949	EST01054
179	EST00145	1141	EST02163	1962	EST01062
183	EST00148	1163	EST02187	1973	EST01071
201	EST00163	1183	EST02208	1977	EST01075
205	EST00165	1243	EST02272	1982	EST01080
215	EST00172	1264	EST02293	1991	EST01088
230	EST00181	1265	EST02294	1993	EST01090
253	EST00199	1266	EST02295	2000	EST01097
263	EST00203	1287	EST02317	2001	EST01098
268	EST00369	1308	EST02338	2012	EST01106
270	EST00207	1324	EST02354	2013	EST01107
271	EST00283	1344	EST02374	2024	EST01117
273	EST00208	1356	EST02386	2043	EST01131
276	EST00211	1365	EST02396	2051	EST01138
281	EST00214	1383	EST02415	2056	EST01142
285	EST00286	1399	EST02433	2058	EST01144
333	EST00394	1401	EST02435	2059	EST01145
336	EST00397	1405	EST02439	2064	EST01149
339	EST00400	1417	EST02452	2090	EST01167
362	EST00418	1451	EST02487	2094	EST01171
389	EST00440	1457	EST02493	2116	EST01192
441	EST00481	1463	EST02500	2117	EST01193
454	EST00493	1473	EST02510	2128	EST01202
476	EST00509	1479	EST02516	2131	EST01205
493	EST00522	1516	EST02555	2134	EST01208
504	EST00529	1528	EST02569	2144	EST01216
516	EST00538	1531	EST02572	2145	EST01217
518	EST00540	1544	EST02586	2150	EST01222
551	EST01482	1551	EST02593	2155	EST01227
552	EST00565	1558	EST02601	2161	EST01231
559	EST00570	1561	EST02604	2163	EST01238
582	EST00592	1581	EST02625	2174	EST01242
602	EST00606	1586	EST02631	2176	EST01244
606	EST00609	1591	EST02636	2189	EST01255
608	EST00611	1616	EST02661	2214	EST01272
621	EST00620	1624	EST02670	2225	EST01278
635	EST00629	1630	EST02676	2227	EST01279
642	EST00634	1637	EST00796	2233	EST01284
644	EST00636	1639	EST00799	2235	EST01286
687	EST00671	1649	EST00808	2236	EST01287
700	EST00683	1651	EST00810	2255	EST01302
743	EST00714	1677	EST00835	2259	EST01304
753	EST00721	1682	EST00839	2263	EST01307
760	EST00726	1694	EST00849		
764	EST00729	1706	EST00857		
808	EST00761	1708	EST00858	2267	EST01756
823	EST01864	1710	EST00860	2281	EST01321
834	EST00771	1716	EST00865	2283	EST01322
886	EST01886			2300	EST01333
919	EST01921	1718	EST00867	2303	EST01335
930	EST01933	1731	EST00879	2303	EST01335
		1742	EST00887	2314	EST01345
		1746	EST00891	2334	EST01358
		1760	EST00903	2339	EST01362
		1767	EST00907	2342	EST01365
		1769	EST00909	2348	EST01371
		1777	EST00913	2358	EST01379
				2367	EST01388

Table 7: ESTs with Good Probability of Containing Coding Sequence

<u>SEQ ID#</u>	<u>EST#</u>				
		1041	EST02057	2362	EST01383
		1083	EST02102	2378	EST01397
20	EST00024	1099	EST02118	2399	EST01423
72	EST00071	1105	EST02124	2407	EST02714
82	EST00078	1113	EST02133		
88	EST00084	1139	EST02161		
137	EST00272	1146	EST02168		
177	EST00328	1196	EST02221		
193	EST00156	1210	EST02238		
200	EST00162	1233	EST02262		
218	EST00175	1285	EST02314		
228	EST00179	1331	EST02361		
247	EST00279	1388	EST02421		
264	EST00204	1418	EST02453		
267	EST00297	1439	EST02475		
296	EST00228	1502	EST02540		
371	EST00426	1537	EST02578		
385	EST00436	1563	EST02606		
392	EST00442	1599	EST02644		
414	EST00460	1602	EST02647		
433	EST00474	1693	EST00848		
453	EST00492	1695	EST00850		
471	EST00505	1729	EST00877		
496	EST00525	1730	EST00878		
524	EST00544	1738	EST00883		
526	EST00546	1739	EST00885		
529	EST00549	1743	EST00888		
549	EST00563	1768	EST00908		
557	EST00569	1780	EST00916		
578	EST00588	1804	EST00938		
596	EST00602	1805	EST00939		
607	EST00610	1811	EST00945		
619	EST00619	1819	EST00950		
657	EST00646	1826	EST00956		
660	EST00649	1830	EST00959		
689	EST00673	1845	EST00971		
695	EST00679	1848	EST00974		
699	EST00682	1853	EST00977		
729	EST00703	1967	EST01066		
742	EST00713	1992	EST01089		
747	EST00717	1994	EST01091		
755	EST00723	<u>SEQ ID#</u>	<u>EST#</u>		
759	EST00725				
776	EST00738	1997	EST01094		
778	EST00740	2046	EST01134		
782	EST01551	2101	EST01177		
829	EST00768	2102	EST01178		
835	EST00772	2105	EST01181		
836	EST00773	2106	EST01182		
862	EST01872	2141	EST01213		
881	EST01881	2184	EST01251		
<u>SEQ ID#</u>	<u>EST#</u>	2196	EST01260		
		2203	EST01264		
884	EST01884	2232	EST01283		
924	EST01926	2308	EST01339		
929	EST01932	2345	EST01368		
938	EST01941	2346	EST01369		
971	EST01985	2351	EST01373		
995	EST02009	2354	EST01375		
996	EST02010	2355	EST01376		
1031	EST02046	2359	EST01380		

Table 8: ESTs with Marginal Probability of Containing Coding Sequence

<u>SEQ ID#</u>	<u>EST#</u>		
11	EST00018	1222	EST02251
12	EST00274	1224	EST02253
24	EST00027	1228	EST02257
45	EST00364	1267	EST02296
79	EST00076	1301	EST02331
90	EST00302	1397	EST02431
110	EST00096	1448	EST02484
144	EST00120	1480	EST02517
145	EST00121	1493	EST02531
192	EST00155	1499	EST02537
222	EST00177	1503	EST02541
234	EST00184	1527	EST02568
277	EST00212	1536	EST02577
319	EST00381	1548	EST02590
368	EST00423	1562	EST02605
370	EST00425	1572	EST02615
387	EST00438	1575	EST02618
402	EST00451	1595	EST02640
415	EST00461	1608	EST02653
418	EST00464	1610	EST02655
426	EST00470	1621	EST02667
503	EST00528	1627	EST02674
517	EST00539	1629	EST02677
522	EST00543	1631	EST02678
532	EST00551	1683	EST00840
540	EST00557	1692	EST00847
570	EST00580	1751	EST00895
573	EST00583	1756	EST00900
576	EST00586	1764	EST02690
613	EST00615	1770	EST00910
617	EST00617	1793	EST00929
626	EST00622	1847	EST00973
681	EST00665	1877	EST00998
726	EST00700	1897	EST01012
727	EST00701	1900	EST01015
738	EST00711	1939	EST01655
745	EST00715	1940	EST01046
752	EST00720	1954	EST01058
791	EST00746	<u>SEQ ID#</u>	<u>EST#</u>
795	EST00749	1990	EST01087
803	EST00756	2008	EST01103
845	EST00777	2031	EST01123
852	EST00782	2041	EST01130
854	EST00784	2044	EST01132
907	EST01907	2060	EST01146
912	EST01912	2100	EST01176
935	EST01938	2136	EST01210
<u>SEQ ID#</u>	<u>EST#</u>	2153	EST01225
968	EST01981	2204	EST01265
985	EST01999	2212	EST01270
988	EST02002	2248	EST01297
1043	EST02059	2250	EST01299
1081	EST02100	2266	EST01310
1089	EST02108	2309	EST01340
1116	EST02136	2347	EST01370
1134	EST02154	2388	EST01406
1205	EST02233	2398	EST01422
		2405	EST01427

Table 9: ESTs with Poor Coding Probability

SEQ ID#	EST#	103	EST00317	204	EST00235	309	EST00174	404	EST00453
1	EST00007	104	EST00354	206	EST00166	315	EST00008	405	EST00454
2	EST00009	105	EST00365	207	EST00167	316	EST00378	406	EST00455
3	EST00010	107	EST00093	209	EST00331	317	EST00379	407	EST00456
4	EST00011	109	EST00095	210	EST00168	318	EST00380	408	EST00457
5	EST00012	111	EST00281	211	EST00332	320	EST00382	409	EST01444
6	EST00013	112	EST00318	212	EST00169	321	EST00383	410	EST00458
8	EST00234	113	EST00097	213	EST00170	322	EST00384	411	EST00459
10	EST00016	116	EST00100	214	EST00171	323	EST00385	412	EST01445
14	EST00019	117	EST00319	216	EST00173	325	EST00386	416	EST00462
16	EST00021	118	EST00101	219	EST00176	326	EST00387	417	EST00463
17	EST00022	119	EST00102	220	EST00372	327	EST00388	419	EST00465
18	EST00373	120	EST00103	221	EST00359	328	EST00389	420	EST00466
19	EST00023	121	EST00104	224	EST00356	329	EST00390	421	EST00467
21	EST00025	122	EST00105	225	EST00178	330	EST00391	422	EST01447
23	EST00026	123	EST00106	226	EST00333	331	EST00392	423	EST00468
25	EST00028	125	EST00108	229	EST00180	332	EST00393	424	EST01448
27	EST00029	126	EST00109	231	EST00334	334	EST00395	425	EST00469
28	EST00030	127	EST00320	232	EST00182	335	EST00396	427	EST01449
29	EST00031	129	EST00321	233	EST00183	337	EST00398	428	EST01451
30	EST00032	130	EST00355	235	EST00185	340	EST00402	429	EST00471
31	EST00033	131	EST00322	236	EST00186	341	EST00403	431	EST00473
32	EST00233	133	EST00111	237	EST00187	342	EST00404	432	EST01452
33	EST00034	134	EST00375	238	EST00188	344	EST00405	434	EST00475
34	EST00035	135	EST00112	239	EST00189	345	EST00406	435	EST00476
35	EST00036	136	EST00113	240	EST00335	347	EST01829	436	EST00477
36	EST00037	138	EST00114	241	EST00191	348	EST01830	437	EST00478
39	EST00039	139	EST00116	242	EST00192	349	EST01831	438	EST00479
40	EST00040	140	EST00117	243	EST00193	350	EST00407	439	EST00480
41	EST00041	141	EST00118	244	EST00194	351	EST00408	440	EST01454
42	EST00042	142	EST00323	245	EST00347	352	EST00409	442	EST01456
46	EST00044	143	EST00119	246	EST00196	353	EST00410	443	EST00482
47	EST00046	146	EST00122	250	EST00197	354	EST01433	444	EST00483
49	EST00047	147	EST00292	252	EST00198	355	EST00411	446	EST00485
50	EST00048	148	EST00236	254	EST00200	356	EST00412	447	EST00486
51	EST00049	149	EST00123	255	EST00201	357	EST00413	448	EST00487
52	EST00052	150	EST00124	256	EST00345	358	EST00414	449	EST00488
53	EST00054	151	EST00125	257	EST00337	359	EST00415	450	EST00489
54	EST00055	152	EST00126	259	EST00202	360	EST00416	451	EST00490
55	EST00056	153	EST00127	260	EST00357	361	EST00417	452	EST00491
56	EST00057	154	EST00128	261	EST00338	363	EST00419	455	EST00494
57	EST00058	155	EST00129	262	EST00339	364	EST00420	457	EST00495
58	EST00059	157	EST00131	265	EST00205	365	EST01434	458	EST00496
59	EST00061	158	EST00132	266	EST00206	366	EST00421	459	EST00497
60	EST00062	159	EST00325	272	EST00340	367	EST00422	460	EST01457
63	EST00065	160	EST00326	274	EST00268	369	EST00424	461	EST01836
64	EST00066	162	EST00133	275	EST00209	372	EST00427	462	EST00498
67	EST00351	163	EST00134	278	EST00342	373	EST01832	464	EST00499
68	EST00068	165	EST00136	279	EST00213	374	EST00428	465	EST00500
69	EST00360	167	EST00138	280	EST00343	375	EST00429	466	EST00501
71	EST00070	168	EST00140	283	EST00215	376	EST01436	467	EST00502
73	EST00072	169	EST00141	284	EST00216	377	EST00430	468	EST00503
74	EST00073	170	EST00295	286	EST00217	378	EST00431	470	EST00504
76	EST00075	171	EST00327	287	EST00218	379	EST00432	SEQ ID#	EST#
80	EST00077	172	EST00142	288	EST00219	380	EST01439	473	EST00506
81	EST00315	173	EST00143	289	EST00220	381	EST00433	474	EST00507
83	EST00079	175	EST00144	290	EST00221	382	EST00434	477	EST01463
84	EST00080	178	EST00294	291	EST00222	SEQ ID#	EST#	478	EST00510
85	EST00081	182	EST00329	292	EST00223	383	EST00435	479	EST00511
86	EST00082	184	EST00149	293	EST00224	384	EST01440	480	EST01464
87	EST00083	185	EST00150	294	EST00225	386	EST00437	481	EST00512
89	EST00085	186	EST00151	SEQ ID#	EST#	388	EST00439	482	EST01465
91	EST00086	190	EST00153	295	EST00226	390	EST01442	483	EST00513
92	EST00087	191	EST00154	297	EST00230	391	EST00441	484	EST00514
94	EST00353	194	EST00157	298	EST00231	393	EST00443	487	EST00516
95	EST00088	SEQ ID#	EST#	302	EST00303	395	EST00445	488	EST00517
96	EST00089	195	EST00158	303	EST00348	397	EST00446	489	EST00518
99	EST00316	196	EST00159	304	EST00307	398	EST00447	490	EST00519
SEQ ID#	EST#	197	EST00160	305	EST00308	399	EST00448	491	EST00520
100	EST00090	198	EST00161	306	EST00309	400	EST00449	492	EST00521
101	EST00091	199	EST00277	307	EST00312	401	EST00450	495	EST00524
		203	EST00164	308	EST00314	403	EST00452	497	EST00526

498	EST01467	600	EST01492	697	EST00680	799	EST00752	894	EST01894
499	EST01468	601	EST01493	698	EST00681	800	EST00753	895	EST01895
500	EST00527	603	EST01494	701	EST01522	801	EST00754	896	EST01896
501	EST02715	604	EST00607	702	EST00684	804	EST00757	897	EST01897
502	EST01469	605	EST00608	703	EST00685	805	EST00758	898	EST01898
507	EST00530	609	EST01496	704	EST00686	806	EST00759	899	EST01899
508	EST00531	610	EST00612	705	EST00687	807	EST00760	900	EST01900
509	EST01472	611	EST00613	706	EST00688	809	EST00762	901	EST01901
510	EST00532	612	EST00614	708	EST00689	810	EST00763	902	EST01902
511	EST00533	615	EST00616	709	EST00690	811	EST00764	903	EST01903
512	EST00534	616	EST01497	710	EST00691	813	EST00765	904	EST01904
513	EST00535	618	EST01498	711	EST00692	814	EST00766	905	EST01905
514	EST00536	620	EST01499	712	EST00693	815	EST01855	906	EST01906
515	EST00537	622	EST01843	713	EST00694	816	EST01856	908	EST01908
519	EST00541	623	EST00621	714	EST00695	817	EST01857	909	EST01909
520	EST00542	624	EST01500	715	EST01523	818	EST01858	910	EST01910
521	EST01474	625	EST01844	716	EST01524	819	EST01859	911	EST01911
523	EST01838	627	EST00623	717	EST01525	820	EST01860	914	EST01914
525	EST00545	628	EST01503	718	EST00696	822	EST01863	915	EST01915
527	EST00547	629	EST00624	719	EST01526	825	EST01866	916	EST01917
528	EST00548	630	EST01505	720	EST00697	826	EST01867	917	EST01919
530	EST01477	631	EST00625	721	EST01527	827	EST01558	918	EST01920
531	EST00550	632	EST00626	722	EST01528	828	EST00767	920	EST01922
533	EST00552	633	EST00627	723	EST00698	830	EST01559	921	EST01923
534	EST01478	634	EST00628	725	EST00699	831	EST00769	922	EST01924
535	EST00553	636	EST01507	728	EST00702	832	EST00770	923	EST01925
536	EST01479	637	EST00630	730	EST00704	837	EST01561	925	EST01927
537	EST00554	638	EST00631	731	EST00705	838	EST00774	926	EST01929
538	EST00555	640	EST01509	732	EST00706	839	EST01562	927	EST01930
539	EST00556	641	EST00633	733	EST00707	840	EST00775	928	EST01931
541	EST00558	643	EST00635	734	EST00708	841	EST00776	931	EST01934
542	EST01480	645	EST00637	735	EST00709	842	EST01563	932	EST01935
543	EST00559	646	EST00638	736	EST01532	843	EST01564	933	EST01936
544	EST00560	647	EST00639	737	EST00710	844	EST01565	934	EST01937
545	EST01481	648	EST00640	739	EST01534	846	EST00778	937	EST01940
547	EST00561	649	EST00641	740	EST01535	847	EST00779	939	EST01943
548	EST00562	651	EST00643	741	EST00712	848	EST01566		
550	EST00564	652	EST01510	744	EST01537	849	EST01567		
553	EST00566	654	EST00644	746	EST00716	850	EST00780	940	EST01944
555	EST01483	655	EST00645	748	EST01850	851	EST00781	941	EST01945
556	EST00568	656	EST01513	749	EST00719			942	EST01947
558	EST01484	658	EST00647	750	EST01539			943	EST01948
560	EST01485	659	EST00648	751	EST01540	853	EST00783	944	EST01949
561	EST00571	661	EST00650	754	EST00722	855	EST00785	945	EST01950
562	EST00572	662	EST00651			856	EST01568	946	EST01953
563	EST00573	663	EST00652			857	EST01868	947	EST01954
564	EST00574	664	EST00653	756	EST01541	858	EST01869	949	EST01958
565	EST00575	665	EST00654	758	EST00724	859	EST01870	950	EST01959
566	EST00576			761	EST01544	860	EST00786	953	EST01962
567	EST00577			762	EST00727	861	EST01871	954	EST01963
568	EST00578	666	EST01514	763	EST00728	863	EST01873	956	EST01968
569	EST00579	667	EST00655	765	EST00730	864	EST00787	957	EST01969
		668	EST00656	766	EST00731	865	EST01569	958	EST01970
		669	EST00657	767	EST00732	866	EST01874	959	EST01972
		670	EST00658	768	EST00733	867	EST01875	960	EST01973
		671	EST00659	770	EST00735	868	EST01876	961	EST01974
		672	EST00660	771	EST01546	869	EST00788	962	EST01975
		673	EST01515	772	EST00736	870	EST00789	963	EST01976
		674	EST01516	774	EST01548	871	EST00790	964	EST01977
		675	EST00661	775	EST00737	872	EST00791	966	EST01979
		676	EST00662	777	EST00739	873	EST00792	967	EST01980
		677	EST00663	779	EST00741	874	EST00793	970	EST01983
		678	EST01517	780	EST01549	875	EST00794	972	EST01986
		679	EST01518	781	EST01550	876	EST00795	974	EST01988
		680	EST00664	783	EST01552	877	EST01877	975	EST01989
		682	EST00666	785	EST01553	878	EST01878	976	EST01990
		683	EST00667	786	EST00742	879	EST01879	977	EST01991
		684	EST00668	787	EST00743	880	EST01880	978	EST01992
		685	EST00669	788	EST00744	882	EST01882	981	EST01995
		686	EST00670	789	EST00745	883	EST01883	982	EST01996
		688	EST00672	790	EST01554	885	EST01885	983	EST01997
		690	EST00674	792	EST00747	887	EST01887	984	EST01998
		692	EST00676	793	EST00748	889	EST01889	987	EST02001
		693	EST00677	794	EST01555	890	EST01890	989	EST02003
		694	EST00678	796	EST00750	892	EST01892	990	EST02004
		696	EST01521	797	EST00751	893	EST01893	991	EST02005

992	EST02006	1086	EST02105	1184	EST02209	1274	EST02303	1363	EST02394
994	EST02008	1087	EST02106	1185	EST02210	1275	EST02304	1364	EST02395
997	EST02011	1088	EST02107	1186	EST02211	1276	EST02305	1366	EST02397
999	EST02013	1091	EST02110	1187	EST02212	1278	EST02307	1367	EST02398
1001	EST02015	1093	EST02112	1188	EST02213	1279	EST02308	1368	EST02399
1002	EST02016	1095	EST02114	1189	EST02214	1280	EST02309	1370	EST02401
1003	EST02017	1097	EST02116	1190	EST02215	1281	EST02310	1372	EST02403
1005	EST02019	1098	EST02117	1191	EST02216	1282	EST02311	1373	EST02404
1006	EST02020	1100	EST02119	1192	EST02217	1283	EST02312	1375	EST02406
1008	EST02022	1101	EST02120	1193	EST02218	1284	EST02313	1376	EST02407
1009	EST02023	1102	EST02121	1194	EST02219	1286	EST02316	1377	EST02408
1010	EST02024	1104	EST02123	1195	EST02220	1288	EST02318	1378	EST02409
1011	EST02025	1106	EST02125	1197	EST02222	1289	EST02319	1379	EST02410
1012	EST02026	1107	EST02126	1198	EST02223	1290	EST02320	1380	EST02411
1013	EST02027	1108	EST02127	1199	EST02224	1291	EST02321	1381	EST02413
1014	EST02028	1109	EST02128	1200	EST02226	1292	EST02322	1382	EST02414
1015	EST02029	1110	EST02129	1201	EST02228	1293	EST02323		
1016	EST02030	1111	EST02131	1202	EST02229	1294	EST02324		
1017	EST02031	1112	EST02132	1203	EST02230	1295	EST02325		
1019	EST02033	1114	EST02134	1204	EST02232	1296	EST02326		
1022	EST02036	1117	EST02137	1206	EST02234				
1023	EST02037	1119	EST02139	1207	EST02235				
1024	EST02038	1120	EST02140	1208	EST02236	1298	EST02328		
1025	EST02040	1121	EST02141	1209	EST02237	1299	EST02329		
1026	EST02041	1122	EST02142			1300	EST02330		
1027	EST02042	1123	EST02143			1302	EST02332		
1028	EST02043	1124	EST02144	1211	EST02239	1303	EST02333		
1029	EST02044	1125	EST02145	1212	EST02240	1304	EST02334		
1030	EST02045			1213	EST02241	1305	EST02335		
1032	EST02048			1214	EST02242	1306	EST02336		
1033	EST02049	1127	EST02147	1215	EST02244	1307	EST02337		
1036	EST02052	1128	EST02148	1216	EST02245	1309	EST02339		
		1130	EST02150	1217	EST02246	1310	EST02340		
		1131	EST02151	1218	EST02247	1311	EST02341		
		1132	EST02152	1219	EST02248	1313	EST02343		
1037	EST02053	1135	EST02155	1220	EST02249	1314	EST02344		
1038	EST02054	1136	EST02156	1221	EST02250	1315	EST02345		
1040	EST02056	1137	EST02157	1223	EST02252	1316	EST02346		
1042	EST02058	1138	EST02159	1225	EST02254	1317	EST02347		
1044	EST02060	1140	EST02162	1226	EST02255	1318	EST02348		
1045	EST02061	1142	EST02164	1227	EST02256	1319	EST02349		
1046	EST02062	1143	EST02165	1232	EST02261	1320	EST02350		
1048	EST02064	1144	EST02166	1234	EST02263	1321	EST02351		
1049	EST02065	1145	EST02167	1235	EST02264	1322	EST02352		
1050	EST02066	1148	EST02170	1236	EST02265	1323	EST02353		
1051	EST02067	1149	EST02171	1237	EST02266	1325	EST02355		
1052	EST02068	1150	EST02172	1238	EST02267	1326	EST02356		
1053	EST02069	1152	EST02174	1239	EST02268	1327	EST02357		
1054	EST02070	1153	EST02175	1240	EST02269	1328	EST02358		
1055	EST02071	1154	EST02176	1241	EST02270	1329	EST02359		
1056	EST02072	1155	EST02177	1242	EST02271	1330	EST02360		
1057	EST02073	1156	EST02178	1244	EST02273	1333	EST02363		
1058	EST02074	1157	EST02180	1246	EST02275	1334	EST02364		
1059	EST02075	1158	EST02181	1247	EST02276	1335	EST02365		
1060	EST02076	1159	EST02182	1248	EST02277	1336	EST02366		
1061	EST02078	1160	EST02183	1249	EST02278	1337	EST02367		
1062	EST02079	1161	EST02184	1250	EST02279	1338	EST02368		
1063	EST02081	1162	EST02185	1251	EST02280	1339	EST02369		
1064	EST02082	1164	EST02188	1252	EST02281	1342	EST02372		
1065	EST02083	1165	EST02189	1253	EST02282	1343	EST02373		
1066	EST02084	1166	EST02190	1254	EST02283	1345	EST02375		
1067	EST02085	1167	EST02191	1255	EST02284	1346	EST02376		
1068	EST02086	1168	EST02193	1256	EST02285	1347	EST02377		
1070	EST02088	1169	EST02194	1257	EST02286	1349	EST02379		
1071	EST02089	1170	EST02195	1258	EST02287	1350	EST02380		
1072	EST02090	1171	EST02196	1259	EST02288	1351	EST02381		
1073	EST02091	1172	EST02197	1260	EST02289	1352	EST02382		
1074	EST02092	1173	EST02198	1261	EST02290	1353	EST02383		
1075	EST02093	1174	EST02199	1262	EST02291	1354	EST02384		
1076	EST02094	1175	EST02200	1263	EST02292	1355	EST02385		
1077	EST02096	1176	EST02201	1268	EST02297	1357	EST02387		
1078	EST02097	1177	EST02202	1269	EST02298	1358	EST02388		
1079	EST02098	1178	EST02203	1270	EST02299	1359	EST02390		
1080	EST02099	1179	EST02204	1271	EST02300	1360	EST02391		
1082	EST02101	1180	EST02205	1272	EST02301	1361	EST02392		
1084	EST02103	1182	EST02207	1273	EST02302	1362	EST02393		
1085	EST02104								

1907	EST01022	2016	EST01110	2118	EST01194	2223	EST01742	2332	EST01794
1908	EST01023	2018	EST01111	2119	EST01195	2224	EST01277	2333	EST01357
1909	EST01024	2019	EST01112	2122	EST01197	2228	EST01280	2335	EST01359
1911	EST02694	2020	EST01113	2123	EST01713	2229	EST01281	2336	EST01360
1912	EST01025	2021	EST01114	2124	EST01198	2231	EST01746	2337	EST01361
1913	EST01646	2022	EST01115	2125	EST01199	2237	EST01288	2340	EST01802
1915	EST01027	2023	EST01116	2126	EST01200	2238	EST01289	2341	EST01364
1916	EST01028	2025	EST01118	2127	EST01201	2239	EST01290	2343	EST01366
1917	EST01029	2026	EST01119	2129	EST01203	2240	EST01291	2344	EST01367
1918	EST02695	2027	EST01120	2130	EST01204	2241	EST01747	2349	EST01372
1919	EST01030	2028	EST01121	2132	EST01206	2242	EST01292	2350	EST02708
1920	EST01031	2029	EST01682	2133	EST01207	2243	EST01293	2352	EST01374
1921	EST01647	2030	EST01122	2135	EST01209	2244	EST01294	2356	EST01377
1922	EST01032	2033	EST01684	2137	EST01211	2246	EST01295	2357	EST01378
1923	EST01033	2034	EST01124	2139	EST01716	2247	EST01296	2360	EST01381
1924	EST01034	2035	EST01125	2140	EST01212	2249	EST01298	2361	EST01382
1925	EST01035	2036	EST01126	2142	EST01214	2251	EST01300	2363	EST01384
1926	EST01036	2037	EST01686	2143	EST01215	2252	EST01750	2364	EST01385
1927	EST01037	2038	EST01127	2147	EST01219	2253	EST01301	2365	EST01386
1929	EST01039	2039	EST01128	2148	EST01220	2256	EST02718	2366	EST01387
1932	EST01042	2040	EST01129	2151	EST01223	2257	EST01303	2369	EST01811
1934	EST01043	2042	EST01688	2152	EST01224	2258	EST01754	2370	EST01390
1935	EST01044	2045	EST01133	2154	EST01226	2260	EST01305	2371	EST01391
1936	EST01045	2047	EST01135	2156	EST01718	2261	EST01755	2372	EST01392
1937	EST01652	2048	EST01136	2157	EST01719	2262	EST01306	2375	EST01815
1938	EST01654	2049	EST01689	2158	EST01228	2264	EST01308	2376	EST01395
1941	EST01047	2050	EST01137	2159	EST01229	2265	EST01309	2377	EST01396
1942	EST01048	2052	EST01139	2160	EST01230	2268	EST01311	2379	EST01398
1943	EST01049	2053	EST01140	2162	EST01232	2269	EST01312	2380	EST01399
1945	EST01051	2054	EST01141	2163	EST01233	2270	EST01313	2381	EST01400
1946	EST02696	2055	EST01690	2164	EST01234	2271	EST01314	2382	EST01401
1947	EST01052	2057	EST01143	2165	EST01720	2272	EST01762	2383	EST01402
1948	EST01053	2061	EST01147	2166	EST01236	2273	EST01315	2384	EST01403
1950	EST01055	2062	EST02701	2167	EST01237	2275	EST01316	2385	EST01816
1951	EST01056	2063	EST01148	2169	EST01722	2276	EST01317	2386	EST01404
1952	EST01057	2065	EST01691	2170	EST01239	2277	EST01318	2387	EST01405
1955	EST01662	2066	EST01692	2171	EST01240	2278	EST01319		
1957	EST01059	2067	EST01693	2172	EST01241	2279	EST01320		
1958	EST01060	2069	EST01150	2175	EST01243	2280	EST01763		
1959	EST01061	2070	EST01151	2177	EST01245	2284	EST01323		
1963	EST01063	2072	EST01152	2178	EST01726	SEQ ID#	EST#		
1964	EST01064	2074	EST01698	2179	EST01246				
1966	EST01065	2075	EST01153	2180	EST01247	2285	EST01768		
1968	EST01067	2076	EST02702	2181	EST01248	2287	EST01770		
1969	EST01068	2077	EST01154	SEQ ID#	EST#	2288	EST01324		
1970	EST01666	2078	EST01155			2290	EST01772		
1971	EST01069	2079	EST01156	2182	EST01249	2291	EST01773		
1972	EST01070	2080	EST01157	2183	EST01250	2292	EST01326		
1975	EST01073	SEQ ID#	EST#	2185	EST01252	2293	EST01327		
1976	EST01074			2186	EST01253	2294	EST01328		
1978	EST01076	2081	EST01158	2187	EST01727	2295	EST01329		
1979	EST01077	2082	EST01159	2188	EST01254	2296	EST01330		
		2083	EST01160	2190	EST01728	2298	EST01331		
		2084	EST01161	2191	EST01256	2299	EST01332		
1980	EST01078	2085	EST01162	2193	EST01258	2301	EST01334		
1981	EST01079	2086	EST01163	2194	EST01729	2304	EST01780		
1983	EST01081	2087	EST01164	2195	EST01259	2305	EST01336		
1984	EST01082	2088	EST01166	2197	EST01261	2306	EST01337		
1985	EST01083	2091	EST01168	2198	EST01730	2310	EST01341		
1986	EST01084	2093	EST01170	2199	EST01262	2311	EST01342		
1988	EST01085	2095	EST01701	2200	EST01731	2312	EST01343		
1989	EST01086	2096	EST01172	2201	EST01263	2313	EST01344		
1995	EST01092	2097	EST01173	2202	EST01732	2315	EST01346		
1996	EST01093	2098	EST01174	2205	EST01735	2316	EST01782		
1998	EST01095	2099	EST01175	2206	EST01736	2317	EST01347		
1999	EST01096	2103	EST01179	2208	EST01267	2318	EST01348		
2002	EST01099	2104	EST01180	2209	EST02717	2319	EST01349		
2003	EST01675	2107	EST01183	2210	EST01268	2321	EST01350		
2005	EST01100	2108	EST01184	2211	EST01269	2322	EST01351		
2006	EST01101	2109	EST01185	2213	EST01271	2323	EST01789		
2007	EST01102	2110	EST01186	2215	EST01273	2325	EST01353		
2009	EST01677	2111	EST01187	2218	EST01274	2327	EST01354		
2010	EST01104	2112	EST01188	2219	EST01275	2328	EST01355		
2011	EST01105	2113	EST01189	2220	EST01740	2329	EST01792		
2014	EST01108	2114	EST01190	2221	EST01741	2330	EST01793		
2015	EST01109	2115	EST01191	2222	EST01276	2331	EST01356		

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<u>SEQ ID#</u>	<u>EST#</u>
2389	EST01407
2391	EST01415
2392	EST01416
2395	EST01419
2397	EST01421
2401	EST01424
2403	EST01425
2404	EST01426
2406	EST02713
2409	EST00273

SUBSTITUTE SHEET

EXAMPLE 10

Functional Groupings of ESTs and Corresponding Genes

By matching new human ESTs to known sequences from other species, the apparent function of the gene corresponding to the EST can be ascertained. The data generated in Example 3 and 4 have been used to categorize 127 of the ESTs of the present invention, and their corresponding genes, into predicted functional groups. (These 127 are ESTs with database matches to sequences from other species for which a function was known.) Two different grouping schemes have been used.

The first scheme separates the sequences into three broad categories: metabolic; regulatory; and structural. These groupings are set out in Table 10.

The second grouping scheme separates the sequences into 13 specific categories: cell surface proteins; developmental control; energy metabolism; kinases and phosphatases; oncogenes; other metabolism-related polypeptides; peptidases and peptidase inhibitors; receptors; structural and cytoskeletal; signal transduction; transporters; transcription, translation, and subcellular localization; and transcription factors. These groupings are set out in Table 11.

Table 10: Three-Class Functional Groupings of ESTs

SEQ ID	EST#	Group	Putative Identification
1834	EST01620	M	AMP deaminase, brain
97	EST00289	M	Aconitase
691	EST00675	M	Alcohol dehydrogenase
2092	EST01700	M	Anion exchanger homolog AE3
396	EST01443	M	CDPdiacylglycerol-serine O-phosphatidyltransferase
1956	EST01663	M	Ca2+-transporting ATPase 2
1039	EST02055	M	Calcium channel
2192	EST01257	M	Diacylglycerol kinase, lymphocyte
1441	EST02477	M	Diamine acetyltransferase
2289	EST01325	M	Fatty acid synthase
310	EST00377	M	Fo ATPase beta subunit, mitochondrial
1667	EST00825	M	Gamma-aminobutyric acid transporter
1412	EST02446	M	Glutamate-aspartate carrier protein
1020	EST02034	M	Glutaminase
2326	EST01791	M	Inositol-1,4,5-trisphosphate 3-kinase
2173	EST01724	M	Lon protease
1427	EST02463	M	Long-chain-fatty-acid-CoA ligase
2226	EST01744	M	NAD(P)+ transhydrogenase (B-specific)
1566	EST02609	M	Neutrophil oxidase factor
1681	EST01573	M	Nucleoside diphosphate kinase
2254	EST01751	M	Phosphatidylinositol-4,5-bisphosphate phosphodiesterase
93	EST00287	M	Processing enhancing protein
2297	EST01775	M	Prohormone cleavage enzyme
9	EST00376	M	Prolyl endopeptidase
1654	EST01572	M	Protochlorophyllide reductase
38	EST00374	M	RNA polymerase II 6th subunit (RPO26)
1715	EST01583	M	Ribosomal protein L18a
1856	EST01627	M	Ribosomal protein L1a
1974	EST01667	M	Ribosomal protein L3
301	EST00300	M	Ribosomal protein L30
22	EST00301	M	Ribosomal protein S10
2402	EST01826	M	Ribosomal protein S10
463	EST01459	M	Ribosomal protein YL10
2073	EST01697	M	Succinate dehydrogenase flavoprotein
2138	EST01715	M	Succinate dehydrogenase flavoprotein
1771	EST01601	M	Thiosulfate sulfurtransferase (rhodanese)
2121	EST01711	M	Valine-tRNA ligase
1726	EST01588	M	XPR2 alkaline extracellular protease
913	EST01913	M	Clathrin coat assembly protein AP50 homolog
1035	EST02051	M	J1 protein
969	EST01982	R	ADP-ribosylation factor 1
1126	EST02146	R	Calbindin D28
1910	EST01645	R	Calmodulin
485	EST01466	R	Calmodulin-dependent protein kinase, type II, beta
2302	EST01779	R	Discs-large tumor suppressor
188	EST00256	R	Enhancer of split
1229	EST02258	R	KUP protein
993	EST02007	R	Kinase 5 protein
2282	EST01764	R	Lamin B receptor
SEQ ID	EST#	Group	Putative Identification
161	EST00247	R	MARCKS (myristoylated alanine-rich protein kinase)
769	EST00734	R	MARCKS homolog
1386	EST02418	R	MARCKS homolog
227	EST00259	R	Notch/Xotch
952	EST01961	R	Notch/Xotch
1395	EST02429	R	Nuclear factor 1-like protein (NF1)
2353	EST01806	R	Prohibitin
1069	EST02087	R	Protein kinase C, zeta
1933	EST01650	R	Protein phosphatase 2A beta subunit

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202	EST00298	R	Protein-tyrosine phosphatase LRP
1478	EST02515	R	Rab5
1408	EST02442	R	Seven in absentia
300	EST00232	R	Transforming protein (dbl)
1147	EST02169	R	Tyrosine kinase
1348	EST02378	R	cAMP-dependent protein kinase inhibitor
1931	EST01041	R	cAMP-regulated phosphoprotein
1413	EST02447	R	cAMP-specific phosphodiesterase
37	EST00038	R	ras p21-like small GTP-binding protein (smg GDS)
102	EST00248	R	rho H12/ ARH12
299	EST00249	R	smg p25A GDP dissociation inhibitor
189	EST00282	R	trkB
1332	EST02362	R	GA binding protein, beta subunit
1277	EST02306	R	Bib protein
43	EST00371	R	Maternal G10 protein
1704	EST01580	R	Myeloid differentiation primary response gene My
346	EST01828	R	Otd homeotic protein
187	EST00152	R	Wilm's tumor-related protein
249	EST00275	R	Zinc Finger Proteins
413	EST01446	R	Zinc Finger Proteins
469	EST01460	R	Zinc Finger Proteins
833	EST01560	R	Zinc Finger Proteins
1230	EST02259	R	Zinc finger proteins
1496	EST02534	R	Zinc finger proteins
2324	EST01352	R	Zinc Finger Proteins
208	EST00250	S	60K filarial antigen
2320	EST01784	S	60K filarial antigen
251	EST00370	S	Actin, other
2146	EST01218	S	Actin, other
248	EST00271	S	Actinin, alpha
891	EST01891	S	Actinin, alpha
1500	EST02538	S	Actinin, alpha
132	EST00110	S	Agrin
1852	EST01625	S	Agrin
1965	EST01664	S	Amyloid A4
2068	EST01694	S	Amyloid A4
2408	EST00244	S	Amyloid A4
1880	EST01634	S	Axonal glycoprotein TAG-1
2004	EST01676	S	Cofilin
650	EST00642	S	Dilute (myosin heavy chain)
2217	EST01738	S	Gelation factor ABP-280
1885	EST01639	S	Histocompatibility antigen modifier 1
77	EST00257	S	Kinesin
SEQ ID	EST#	Group	Putative Identification
78	EST00258	S	Kinesin
2245	EST01748	S	Kinesin
313	EST00276	S	Lysosomal membrane glycoprotein 1 (LAMP-1)
223	EST00368	S	Microtubule-associated protein 1B
824	EST01865	S	Microtubule-associated protein 1B
2032	EST01683	S	Microtubule-associated protein 1B
2017	EST01678	S	Milk fat globule membrane protein
1567	EST02610	S	Neural cell adhesion molecule L1
506	EST01471	S	Neuraxin
2368	EST01389	S	Radial spoke protein 3
951	EST01960	S	Spectrin, beta
2089	EST01699	S	Sperm membrane protein
653	EST01512	S	Tubulin, alpha
311	EST00270	S	Tubulin, beta
594	EST01490	S	Tubulin, beta
757	EST01542	S	Tubulin, beta
1245	EST02274	S	Tubulin, beta
1589	EST02634	S	Tubulin, beta
1468	EST02505	S	Matrin 3

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1371	EST02402	S	Talin
1701	EST00853	S	Unc-104

Group Key: M: Metabolic, R: Regulatory, S: Structural

Table 11: Thirteen-Class Functional Groupings of ESTs

<u>SEQ ID</u>	<u>EST#</u>	<u>Group</u>	<u>Putative Identification</u>
208	EST00250	CS	60K filarial antigen
2320	EST01784	CS	60K filarial antigen
1965	EST01664	CS	Amyloid A4
2068	EST01694	CS	Amyloid A4
2408	EST00244	CS	Amyloid A4
1880	EST01634	CS	Axonal glycoprotein TAG-1
1885	EST01639	CS	Histocompatibility antigen modifier 1
313	EST00276	CS	Lysosomal membrane glycoprotein 1 (LAMP-1)
2017	EST01678	CS	Milk fat globule membrane protein
1567	EST02610	CS	Neural cell adhesion molecule L1
2368	EST01389	CS	Radial spoke protein 3
2089	EST01699	CS	Sperm membrane protein
1277	EST02306	DC	Bib protein
188	EST00256	DC	Enhancer of split
43	EST00371	DC	Maternal G10 protein
1704	EST01580	DC	Myeloid differentiation primary response gene MyD1
227	EST00259	DC	Notch/Xotch
952	EST01961	DC	Notch/Xotch
346	EST01828	DC	Orthodentical homeotic protein
1408	EST02442	DC	Seven in absentia
97	EST00289	EM	Aconitase
310	EST00377	EM	Fo ATPase beta subunit, mitochondrial
485	EST01466	KP	Calmodulin-dependent protein kinase, type II, beta
993	EST02007	KP	Kinase 5 protein
1069	EST02087	KP	Protein kinase C, zeta
1933	EST01650	KP	Protein phosphatase 2A beta subunit
202	EST00298	KP	Protein-tyrosine phosphatase LRP
1348	EST02378	KP	cAMP-dependent protein kinase inhibitor
2302	EST01779	OG	Discs-large tumor suppressor
2353	EST01806	OG	Prohibitin
1478	EST02515	OG	Rab5
300	EST00232	OG	Transforming protein (dbl)
37	EST00038	OG	ras p21-like small GTP-binding protein (smg GDS)
102	EST00248	OG	rho H12/ ARH12
1834	EST01620	OM	AMP deaminase, brain
691	EST00675	OM	Alcohol dehydrogenase
396	EST01443	OM	CDPdiacylglycerol-serine O-phosphatidyltransferase
2192	EST01257	OM	Diacylglycerol kinase, lymphocyte
1441	EST02477	OM	Diamine acetyltransferase
2289	EST01325	OM	Fatty acid synthase
1020	EST02034	OM	Glutaminase
2326	EST01791	OM	Inositol-1,4,5-trisphosphate 3-kinase
1427	EST02463	OM	Long-chain-fatty-acid-CoA ligase
2226	EST01744	OM	NAD(P)+ transhydrogenase (B-specific)
1566	EST02609	OM	Neutrophil oxidase factor
1681	EST01573	OM	Nucleoside diphosphate kinase

<u>SEQ ID</u>	<u>EST#</u>	<u>Group</u>	<u>Putative Identification</u>
2254	EST01751	OM	Phosphatidylinositol-4,5-bisphosphate phosphodiesterase
1654	EST01572	OM	Protochlorophyllide reductase
2073	EST01697	OM	Succinate dehydrogenase flavoprotein
2138	EST01715	OM	Succinate dehydrogenase flavoprotein
1771	EST01601	OM	Thiosulfate sulfurtransferase (rhodanese)
2173	EST01724	PI	Lon protease
2297	EST01775	PI	Prohormone cleavage enzyme
9	EST00376	PI	Prolyl endopeptidase
1726	EST01588	PI	XPR2 alkaline extracellular protease
1147	EST02169	PP	Tyrosine kinase
2282	EST01764	RT	Lamin B receptor
189	EST00282	RT	trkB
251	EST00370	SC	Actin, other
2146	EST01218	SC	Actin, other
248	EST00271	SC	Actinin, alpha
891	EST01891	SC	Actinin, alpha
1500	EST02538	SC	Actinin, alpha
132	EST00110	SC	Agrin
1852	EST01625	SC	Agrin
2004	EST01676	SC	Cofilin
650	EST00642	SC	Dilute (myosin heavy chain)
2217	EST01738	SC	Gelation factor ABP-280
77	EST00257	SC	Kinesin
78	EST00258	SC	Kinesin
2245	EST01748	SC	Kinesin
1468	EST02505	SC	Matrin 3
223	EST00368	SC	Microtubule-associated protein 1B
824	EST01865	SC	Microtubule-associated protein 1B
2032	EST01683	SC	Microtubule-associated protein 1B
506	EST01471	SC	Neuraxin
951	EST01960	SC	Spectrin, beta
1371	EST02402	SC	Talin
653	EST01512	SC	Tubulin, alpha
311	EST00270	SC	Tubulin, beta
594	EST01490	SC	Tubulin, beta
757	EST01542	SC	Tubulin, beta
1245	EST02274	SC	Tubulin, beta
1589	EST02634	SC	Tubulin, beta
1701	EST00853	SC	Unc-104
969	EST01982	ST	ADP-ribosylation factor 1
1126	EST02146	ST	Calbindin D28
1910	EST01645	ST	Calmodulin
161	EST00247	ST	MARCKS (myristoylated alanine-rich protein kinase)
769	EST00734	ST	MARCKS homolog
1386	EST02418	ST	MARCKS homolog
1931	EST01041	ST	cAMP-regulated phosphoprotein
1413	EST02447	ST	cAMP-specific phosphodiesterase
299	EST00249	ST	smg p25A GDP dissociation inhibitor

<u>SEQ ID</u>	<u>EST#</u>	<u>Group</u>	<u>Putative Identification</u>
2092	EST01700	TP	Anion exchanger homolog AE3
1956	EST01663	TP	Ca ²⁺ -transporting ATPase 2
1039	EST02055	TP	Calcium channel
1667	EST00825	TP	Gamma-aminobutyric acid transporter
1412	EST02446	TP	Glutamate-aspartate carrier protein
913	EST01913	TT	Clathrin coat assembly protein AP50 homolog
1035	EST02051	TT	J1 protein
93	EST00287	TT	Processing enhancing protein
38	EST00374	TT	RNA polymerase II 6th subunit (RPO26)
1715	EST01583	TT	Ribosomal protein L18a
1856	EST01627	TT	Ribosomal protein L1a
1974	EST01667	TT	Ribosomal protein L3
301	EST00300	TT	Ribosomal protein L30
22	EST00301	TT	Ribosomal protein S10
2402	EST01826	TT	Ribosomal protein S10
463	EST01459	TT	Ribosomal protein YL10
2121	EST01711	TT	Valine-tRNA ligase
1332	EST02362	TX	GA binding protein, beta subunit
1229	EST02258	TX	KUP protein
1395	EST02429	TX	Nuclear factor 1-like protein (NF1)
187	EST00152	TX	Wilm's tumor-related protein
249	EST00275	TX	Zinc Finger Proteins
413	EST01446	TX	Zinc Finger Proteins
469	EST01460	TX	Zinc Finger Proteins
833	EST01560	TX	Zinc Finger Proteins
1230	EST02259	TX	Zinc finger proteins
1496	EST02534	TX	Zinc finger proteins
2324	EST01352	TX	Zinc Finger Proteins

Group Key: CS: Cell Surface, DC: Developmental Control, EM: Energy Metabolism, KP: Kinases and Phosphatases, OG: Oncogenes, OM: Other Metabolism, PI, Peptidases and Peptidase Inhibitors, RT: Receptors, SC: Structural and Cytoskeletal, ST: Signal Transduction, TP: Transporters, TT: Transcription, Translation, and Subcellular Localization, TX: Transcription Factors.

EXAMPLE 11

cDNA Libraries Generated From Specific Genomic DNA
by Exon Expression & Amplification

5 Exon amplification was used to express potential exons from genomic DNA in a recombinant vector that contains some of the signals necessary for splicing. If an exon is present in the proper orientation in the vector, that exon will be
10 spliced in a mammalian cell and will become part of the mRNA of that cell. The exon splice-product can be purified from other mRNA in the cell by conversion of the mRNA to cDNA and selective amplification of the recombinant splice-product cDNAs. Cosmid DNA from human chromosome 19q13.3 was digested
15 with BamHI or BamHI/BglIII restriction enzymes. The fragments generated were collected and size specifically cloned into an expression vector (Buckler, et al. *Proc. Nat'l. Acad. Sci. USA*, 88:4005-4009 (1991)). After transfection by electroporation of these constructs into COS cells, RNA
20 transcripts were generated using the SV40 early promoter and a polyadenylation signal derived from SV40 both present in the expression vector. When a fragment of genomic DNA contains an entire exon with flanking intron sequence in the sense orientation, the exon should be retained in the mature
25 poly(A)+ cytoplasmic RNA. Therefore, the mRNA was used as template for cDNA synthesis using reverse transcriptase and vector-priming. Subsequently, the cDNAs were amplified by vector-priming using PCR. A fraction of this first PCR product was reamplified using internal vector-primers
30 containing terminal cloning sites. These products were end-repaired with T4 DNA polymerase, digested with the appropriate restriction enzymes, gel purified and cloned into pBluescript vectors. The constructs were transfected into XL1-Blue competent cells and plated on LB/X-gal/IPTG/ampicillin plates. White colonies were selected and
35 expanded to prepare DNA templates as described in Example 2.

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When multiple cosmids or YAC clones were used as the source DNA, a pool of specific expressed exons was obtained as a cDNA library. The EST/cDNAs sequenced from this specific library are disclosed herein as SEQ ID NOS: 2412-2417.

5

EXAMPLE 12**PCR Amplification from Predicted Exons**

10 Computational analyses can be applied to genomic DNA sequences to predict protein coding regions. The coding region prediction program CRM (E. Uberbacher and R. Mural, *Proc. Natl. Acad. Sci. USA* 88:11261-5 (1991)) finds open reading frames and classifies them according to their probability of being coding regions. These regions are subsequently examined using the GM program (C. Fields and C. Soderlund, *Comp. Applic. Biosci.* 6: 263, 1990), which predicts intron-exon structure. PCR primers are then designed to amplify the predicted exons and used to test human cDNA libraries (for example, fetal brain or placental libraries) for the presence of these putative exons using a PCR assay.

25 This strategy has been successfully applied in two large scale genomic sequencing projects, the Huntington's locus of human chromosome 4p16.3 (McCombie, et al., submitted) and human chromosome locus 19q13.3 (Martin-Gallardo, et al., submitted). Sequences from eleven predicted exons from chromosome 4 were present in tested cDNA libraries, indicating that this region has at least two and probably three expressed genes. In one case, the method resulted in an amplification product which spanned two predicted exons. (SEQ ID NO: 2411.) When sequenced, this PCR product indicated the presence of the two exons from which the primers were initially chosen, as well as an intervening exon which was also predicted by the CRM program, but not the intervening genomic sequences. In a similar fashion, the presence of the two predicted genes in the chromosome 19

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sequence was confirmed by sequencing PCR products. SEQ ID NO 2410, includes a partial exon of one of these genes.

EXAMPLE 13

5 Complete Sequence of EST Clone Inserts

There are a number of methods known to those with skill in the art of molecular biology, to obtain sequence information from the cDNAs corresponding to the EST sequences. Procedures for these methods are provided in 10 Basic Methods in Molecular Biology (David et al. *supra*). One way to acquire more information about the cDNA from which an EST was derived is to sequence the remainder of the cDNA clone. The complete sequence of the inserts of four EST clones (representing SEQ ID NOs 188, 189, 223, and 227) was 15 determined using Exonuclease III deletions. Briefly, EST clones were digested with the restriction enzymes SalI and KpnI or PstI and BamHI (for deletions from the Forward primer and Reverse primer ends of the insert, respectively). The 20 KpnI and PstI enzymes leave 3' sticky ends following digestion, which Exonuclease III is unable to bind. This results in unidirectional deletions into the cDNA insert leaving the vector sequence undisturbed. After addition of Exonuclease III to the Forward and Reverse deletion reactions, aliquots of the reaction were removed at defined 25 time intervals and the reaction was stopped to prevent further deletion. S1 nuclease and Klenow DNA polymerase were added to create blunt ended fragments suitable for ligation.

Samples for each time point was purified by 30 electrophoresis through an agarose gel and religated. Two to four representative clones from each time point in each direction were sequenced to give between 200 and 400 base pairs of sequence data. Careful selection of deletion conditions and time points allow a deletion series of 35 approximately 100-200 base pairs difference in length at each consecutive time point. Sequence fragments were reassembled into a redundant contiguous sequence using the INHERIT

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software from Applied Biosystems, Inc. (Foster City, CA). In this way, the complete insert from these four cDNA clones was sequenced on both strands to an average redundancy between three and four (each base was sequenced between three and four times, on average). Those complete insert sequences are disclosed herein as SEQ ID 2418, 2419, 2420, and 2421, corresponding to original ESTs with SEQ ID 223, 189, 227, and 188, respectively.

EXAMPLE 14

Determining Reading Frame, Orientation, Coding Regions: ESTs and Complete cDNA Sequences

Once the complete cDNA sequence has been determined in accordance with Example 13, the reading frame, orientation, and coding regions are determined by computer techniques. (The complete coding region is considered to be the largest open reading frame from a methionine to a stop codon.)

Specifically, the CRM program on the GRAIL server is used as explained in Example 9 to determine probable coding regions. This information is supplemented by location of start and stop codons. Where possible, the results of the CRM analysis are validated by comparison of the cDNA sequence to known sequences using database matching, in accordance with Examples 3 and 4. If a match of 50% (or even less) is found in any particular reading frame and orientation, this serves to verify corresponding CRM results. Alternatively, database matches can be used to determine reading frame and orientation without use of the CRM program. Of course, if the cDNA is derived from a directional library, the probable orientation is already known.

EXAMPLE 15

Preparation of PCR Primers and Amplification of DNA

The EST sequences and the corresponding cDNA sequences and genomic sequences may be used, in accordance with the

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present invention, to prepare PCR primers for a variety of applications. The PCR primers are preferably at least 15 bases, and more preferably at least 18 bases in length. The procedure of Example 5 is repeated using the desired EST, or
5 using the corresponding cDNA or genomic DNA sequence from Example 13. It is preferred that the primer pairs have approximately the same G/C ratio, so that melting temperatures are approximately the same. When screening cDNA, introns are of no concern; however, when screening
10 genomic DNA, primers should be selected to avoid reading across introns, which usually are too large to amplify. The PCR primers and amplified DNA of this Example find use in the Examples that follow.

15

EXAMPLE 16**Forensic Matching by DNA Sequencing**

20 In one exemplary method, DNA samples are isolated from forensic specimens of, for example, hair, semen, blood or skin cells by conventional methods. A panel of PCR primers derived from a number of the sequences of Example 1, 2, 11, 12 and/or 13 is then utilized in accordance with Example 12
25 to obtain DNA of approximately 100-200 bases in length from the forensic specimen. Corresponding sequences are obtained from a suspect. Each of these identification DNAs is then sequenced, and a simple database comparison determines the differences, if any, between the sequences from the suspect
30 and those from the sample. Statistically significant differences between the suspect's DNA sequences and those from the sample conclusively prove a lack of identity. This lack of identity can be proven, for example, with only one sequence. Identity, on the other hand, should be
35 demonstrated with a large number of sequences, all matching. Preferably, a minimum of 50 statistically identical sequences

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of 100 bases in length are used to prove identity between the suspect and the sample.

EXAMPLE 17

5

Positive Identification by DNA Sequencing

The technique outlined in the previous example may also be used on a larger scale to provide a unique fingerprint-type identification of any individual. In this technique, primers are prepared from a large number of sequences from Examples 1, 2, 11, 12 and/or 13. Preferably, 20 to 50 different primers are used. These primers are used to obtain a corresponding number of PCR-generated DNA segments from the individual in question in accordance with Example 15. Each of these DNA segments is sequenced, using the methods set forth in Example 1. The database of sequences generated through this procedure uniquely identifies the individual from whom the sequences were obtained. The same panel of primers may then be used at any later time to absolutely correlate tissue or other biological specimen with that individual.

20

EXAMPLE 18

25

Southern Blot Forensic Identification

The procedure of Example 17 is repeated to obtain a panel of from 10 to 2000 amplified sequences from an individual and a specimen. This PCR-generated DNA is then digested with one or a combination of, preferably, four base specific restriction enzymes. Such enzymes are commercially available and known to those of skill in the art. After digestion, the resultant gene fragments are size separated in multiple duplicate wells on an agarose gel and transferred to nitrocellulose using Southern blotting techniques well known to those with skill in the art. For a review of Southern

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blotting see Davis et al. (Basic Methods in Molecular Biology, 1986, Elsevier Press. pp 62-65).

5 A panel of ESTs or complete cDNA sequences from Examples 1, 2, and/or 13, or fragments thereof of at least 15 bases, are radioactively or colorimetrically labeled using end-labeled oligonucleotides derived from the ESTs, nick translated sequences or the like using methods known in the art and hybridized to the Southern blot using techniques known in the art (Davis et al., supra). Preferably, at least 10 5 to 10 of these labeled probes are used, and more preferably at least about 20 or 30 are used to provide a unique pattern. The resultant bands appearing from the hybridization of a large sample of ESTs will be a unique identifier. Since the restriction enzyme cleavage will be different for every 15 individual, the band pattern on the Southern blot will also be unique. Increasing the number of EST probes will provide a statistically higher level of confidence in the identification since there will be an increased number of sets of bands used for identification.

20

EXAMPLE 19

Dot Blot Identification Procedure

25 Another technique for identifying individuals using the sequences disclosed herein utilizes a dot blot hybridization technique.

30 Genomic DNA is isolated from nuclei of subject to be identified. Oligonucleotide probes of approximately 30 bp in length were synthesized that correspond to sequences from the ESTs. The probes are used to hybridize to the genomic DNA through conditions known to those in the art. The oligonucleotides are end labelled with P^{32} using polynucleotide kinase (Pharmacia). Dot Blots are created by 35 spotting about 50 ng cDNA of at least 10, preferably at least 50 sequences corresponding to a variety of the Sequence ID

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NOs provided in Table 7 onto nitrocellulose or the like using a vacuum dot blot manifold (BioRad, Richmond California). The nitrocellulose filter containing the EST clone sequences is baked or UV linked to the filter, prehybridized and hybridized with labeled probe using techniques known in the art (Davis et al. supra). The ³²P labeled DNA fragments are sequentially hybridized with successively stringent conditions to detect minimal differences between the 30 bp sequence and the DNA. Tetramethylammonium chloride is useful for identifying clones containing small numbers of nucleotide mismatches (Wood et al., Proc. Natl. Acad. Sci. USA 82(6):1585-1588 (1985) which is hereby incorporated by reference. A unique pattern of dots distinguishes one individual from another individuals.

EXAMPLE 20

Alternative "Fingerprint" Identification Technique

EST sequences and the corresponding complete cDNA sequences can be used to create a unique fingerprint for an individual. Thus pools of EST sequences can be used in forensics, paternity suits or the like to differentiate one individual from another.

Entire EST sequences can be used; similarly oligonucleotides can be prepared from EST sequences. In this example, 20-mer oligonucleotides are prepared from 200 EST sequences using commercially available oligonucleotide services such as Oligos Etc., Wilsonville, OR. Patient cell samples are processed for DNA using techniques well known to those with skill in the art. The nucleic acid is digested with restriction enzymes EcoRI and XbaI. Following digestion, samples are applied to wells for electrophoresis. The procedure, as known in the art, may be modified to accommodate polyacrylamide electrophoresis, however in this example, samples containing 5 ug of DNA are loaded into wells

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and separated on 0.8% agarose gels. The gels are transferred using Southern blotting techniques onto nitrocellulose.

10 ng of each of the oligos are pooled and end-labeled with P^{32} . The nitrocellulose is prehybridized with blocking solution and hybridized with the labeled probes. Following hybridization and washing, the nitrocellulose filter is exposed to X-Omat AR X-ray film. The resulting hybridization pattern will be unique for each individual.

It is additionally contemplated within this example that the representative number of EST sequences can be varied for additional accuracy or clarity.

EXAMPLE 21

Identification of genes associated with hereditary diseases

This example illustrates an approach useful for the association of EST sequences with particular phenotypic characteristics. In this example, a particular EST is used as a test probe to associate that EST with a particular phenotypic characteristic.

An EST clone corresponding to EST01643, (SEQ ID NO 1894) maps to a gene rich region of chromosome 6. EST clone HHCMH89, from which EST01643 was derived, was mapped to chromosome 6p21 by Dr. Julie Korenberg of UCLA/Cedar Sinai Hospital using FISH. A search of Mendelian Inheritance in Man (supra) revealed 6p21 to be a very gene rich region containing several known genes and several diseases for which genes have not been identified. The cDNA encoded by EST clone HHCMH89 thus becomes an immediate candidate for each of these genetic diseases.

Cells from patients with these diseases are isolated and expanded in culture. PCR primers from the EST sequences are used to screen genomic DNA and RNA or cDNA from the patients. ESTs that are not amplified in the patients can be positively associated with a particular disease by further analysis.

EXAMPLE 22

Identification of a gene associated with
Angelman's disease

5

Angelman's disease (AD) is characterized by deletions on the long arm of chromosome 15 (15q11q13) (Williams et al. Am. J. Med. Genet. 32:339-345 (1989) hereby incorporated by reference). The symptoms of the disease include developmental delay, seizures, inappropriate laughter and ataxic movements. These symptoms suggest that the disorder is a neurologic deficiency. This prophetic example illustrates how ESTs, preferably obtained from a cDNA library from human brain, may be used in identifying the defective gene or genes associated with Angelman's Disease. (The example is based on analogous work with genomic DNA, rather than cDNA and ESTs, in identifying the genetic defect associated with Angelman's Disease.) This example also illustrates how EST sequences may generally be used for identifying gene sequences associated with an inherited disease that is mapped to a chromosome location.

ESTs are screened using techniques described in Example 5 and Example 7 to identify those ESTs that localize to the long arm of chromosome 15 and preferably localize to chromosome 15 bands 15q11q13 from normal patients. ESTs that bind to the long arm of chromosome 15 are hybridized to chromosome 15 from AD patients. These studies are preferably performed using either fluorescence in situ hybridization or using somatic cell hybrids that contain fragments from the long arm of chromosome 15 from AD patients. Those chromosome 15-specific ESTs that do not map to chromosome 15 from AD patients are useful as markers for Angelman's Disease and can be incorporated into diagnostics for genetic screening. These ESTs are associated with chromosome deletions present in Angelman's disease. Identification of the gene associated with these AD negative ESTs and an analysis of the polypeptides encoded by the genes

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from normal patients is essential for providing gene or other therapies for AD patients.

Genetic diseases are not always accompanied by gene deletions. Therefore, it is also important to use the ESTs that bind to bands 15q11q13 from AD patients as tools to identify the polymorphisms present within the disease population. Restriction fragment length polymorphism (RFLP) analysis can be performed on patient cells from AD disease or from somatic cell hybrids created using the long arm of chromosome 15. For a review of RFLP techniques see Donis-Keller et al. (Cell 51:319-337 (1987) hereby incorporated by reference). DNA is isolated from the somatic cell lines or from cells from AD patients. The DNA is digested with one or more restriction enzymes according to techniques of Donis-Keller et al. The resulting fragments are separated by gel electrophoresis, denatured, transferred to nitrocellulose and hybridized with the selected radio-labeled ESTs that localize to the region of interest. The autoradiographic pattern is compared both to a number of AD patients and to normal patients. Common patterns of EST hybridization in AD patients that are not present in normal patients indicates that the genes associated with these ESTs are candidate genes affected by AD.

cDNA libraries are prepared from the somatic cell hybrids from AD patients. Libraries are prepared using Lambda Zap II Library Kits (Stratagene, La Jolla, California) or other commercially available library kits. The ESTs of interest are used as probes to identify those bacterial colonies carrying genes corresponding to the EST probes. Positive clones are sequenced and the sequences are compared to homologous gene sequences derived from normal patients.

Alterations, including deletions and substitutions, within gene sequences, associated with bands 15q11q13, are thus positively identified and associated with AD disease. Wagstaff et al. were able to identify deletions and substitutions in sequences encoding the GABA_A receptor

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protein subunit from patients with Angelman's disease (*Am. J. Hum. Genet.* 49:330-337, (1991)). It is likely that other genes will additionally be associated with the disease.

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EXAMPLE 23**Preparation and Use of Antisense Oligonucleotides**

10 Antisense RNA molecules are known to be useful for regulating translation within the cell. Antisense RNA molecules can be produced from EST sequences or from the corresponding gene sequences. These antisense molecules can be used as diagnostic probes to determine whether or not a particular gene is expressed in a cell. Similarly, the
15 antisense molecules can be used as a therapeutic to regulate gene expression once the EST is associated with a particular disease (see Example 22).

The antisense molecules are obtained from a nucleotide sequence by reversing the orientation of the coding region
20 with regard to the promoter. Thus, the antisense RNA is complementary to the corresponding mRNA. For a review of antisense design see Green et al., *Ann. Rev. Biochem.* 55:569-597 (1986), which is hereby incorporated by reference. The antisense sequences can contain modified sugar phosphate
25 backbones to increase stability and make them less sensitive to RNase activity. Examples of the modifications are described by Rossi et al., *Pharmacol. Ther.* 50(2):245-254, (1991).

30 Antisense molecules are introduced into cells that express the gene corresponding to the EST of interest in culture. In a preferred application of this invention, the polypeptide encoded by the gene is first identified, so that the effectiveness of antisense inhibition on translation can be monitored using techniques that include but are not
35 limited to antibody-mediated tests such as RIAs and ELISA, functional assays, or radiolabelling. The antisense molecule is introduced into the cells by diffusion or by transfection

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procedures known in the art. The molecules are introduced onto cell samples at a number of different concentrations preferably between $1 \times 10^{-10} \text{M}$ to $1 \times 10^{-4} \text{M}$. Once the minimum concentration that can adequately control translation is identified, the optimized dose is translated into a dosage suitable for use in vivo. For example, an inhibiting concentration in culture of 1×10^{-7} translates into a dose of approximately 0.6 mg/kg bodyweight. Levels of oligonucleotide approaching 100 mg/kg bodyweight or higher may be possible after testing the toxicity of the oligonucleotide in laboratory animals.

The antisense can be introduced into the body as a bare or naked oligonucleotide, oligonucleotide encapsulated in lipid, oligonucleotide sequence encapsidated by viral protein, or as oligonucleotide contained in an expression vector such as those described in Example 25. The antisense oligonucleotide is preferably introduced into the vertebrate by injection. It is additionally contemplated that cells from the vertebrate are removed, treated with the antisense oligonucleotide, and reintroduced into the vertebrate. It is further contemplated that the antisense oligonucleotide sequence is incorporated into a ribozyme sequence to enable the antisense to bind and cleave its target. For technical applications of ribozyme and antisense oligonucleotides see Rossi et al.

EXAMPLE 24

Preparation and use of Triple Helix Probes

Triple helix oligonucleotides are used to inhibit transcription from a genome. They are particularly useful for studying alterations in cell activity as it is associated with a particular gene. The EST sequences or complete sequences of the present invention or, more preferably, a portion of those sequences, can be used to inhibit gene

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expression in individuals having diseases associated with a particular gene. Similarly, a portion of the EST or corresponding gene sequence can be used to study the effect of inhibiting transcription of a particular gene within a cell. Traditionally, homopurine sequences were considered the most useful. However, homopyrimidine sequences can also inhibit gene expression. Thus, both types of sequences from either the EST or from the gene corresponding to the EST are contemplated within the scope of this invention. Homopyrimidine oligonucleotides bind to the major groove at homopurine:homopyrimidine sequences. As an example, 10-mer to 20-mer homopyrimidine sequences from the ESTs can be used to inhibit expression from homopurine sequences. SEQ ID NOs such as 282, 888, 719, 670, 994, 240, 873 and 761 contain homopyrimidine 15-mers. Moreover the natural (beta) anomers of the oligonucleotide units can be replaced with alpha anomers to render the oligonucleotide more resistant to nucleases. Further, an intercalating agent such as ethidium bromide, or the like, can be attached to the 3' end of the alpha oligonucleotide to stabilize the triple helix. For information on the generation of oligonucleotides suitable for triple helix formation see Griffin et al. (*Science* 245:967-971 (1989), which is hereby incorporated by this reference).

The oligonucleotides may be prepared on an oligonucleotide synthesizer or they may be purchased commercially from a company specializing in custom oligonucleotide synthesis. The sequences are introduced into cells in culture using techniques known in the art that include but are not limited to calcium phosphate precipitation, DEAE-Dextran, electroporation, liposome-mediated transfection or native uptake. Treated cells are monitored for altered cell function. These cell functions are predicted based upon the homologies of the gene, corresponding to the EST from which the oligonucleotide was derived, with known genes sequences that have been associated

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with a particular function. The cell functions can also be predicted based on the presence of abnormal physiologies within cells derived from individuals with a particular inherited disease, particularly when the EST is associated with the disease using techniques described in Example 22.

EXAMPLE 25

Gene expression from DNA Sequences Corresponding to ESTs

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A gene sequence of the present invention coding for all or part of a human gene product is introduced into an expression vector using conventional technology. (Techniques to transfer cloned sequences into expression vectors that direct protein translation in mammalian, yeast, insect or bacterial expression systems are well known in the art.) Commercially available vectors and expression systems are available from a variety of suppliers including Stratagene (La Jolla, California), Promega (Madison, Wisconsin), and Invitrogen (San Diego, California). If desired, to enhance expression and facilitate proper protein folding, the codon context and codon pairing of the sequence may be optimized for the particular expression organism, as explained by Hatfield, et al., U.S. Patent No. 5,082,767, incorporated herein by this reference.

25

The following is provided as one exemplary method to generate polypeptide from cloned cDNA sequences. The cDNA from the EST of interest is sequenced to identify the methionine initiation codon for the gene and the poly A sequence. If the cDNA lacks a poly A sequence, this sequence can be added to the construct by, for example, splicing out the Poly A sequence from pSG5 (Stratagene) using BglI and SalI restriction endonuclease enzymes and incorporating it into the mammalian expression vector pXT1 (Stratagene). pXT1 contains the LTRs and a portion of the gag gene from Moloney Murine Leukemia Virus. The position of the LTRs in the construct allow efficient stable transfection. The vector

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includes the Herpes Simplex Thymidine Kinase promoter and the selectable neomycin gene. The cDNA is obtained by PCR from the bacterial vector using oligonucleotide primers complementary to the cDNA and containing restriction endonuclease sequences for Pst I incorporated into the 5' primer and BglII at the 5' end of the corresponding cDNA 3' primer, taking care to ensure that the cDNA is positioned inframe with the poly A sequence. The purified fragment obtained from the resulting PCR reaction is digested with PstI, blunt ended with an exonuclease, digested with Bgl II, purified and ligated to pXT1, now containing a poly A sequence and digested BglII.

The ligated product is transfected into mouse NIH 3T3 cells using Lipofectin (Life Technologies, Inc., Grand Island, New York) under conditions outlined in the product specification. Positive transfectants are selected after growing the transfected cells in 600ug/ml G418 (Sigma, St. Louis, Missouri). The protein is preferably released into the supernatant. However if the protein has membrane binding domains, the protein may additionally be retained within the cell or expression may be restricted to the cell surface.

Since it may be necessary to purify and locate the transfected product, synthetic 15-mer peptides synthesized from the predicted cDNA sequence are injected into mice to generate antibody to the polypeptide encoded by the cDNA.

If antibody production is not possible, the cDNA sequence is additionally incorporated into eukaryotic expression vectors and expressed as a chimeric with, for example, β -globin. Antibody to β -globin is used to purify the chimeric. Corresponding protease cleavage sites engineered between the β -globin gene and the cDNA are then used to separate the two polypeptide fragments from one another after translation. One useful expression vector for generating β -globin chimerics is pSG5 (Stratagene). This vector encodes rabbit β -globin. Intron II of the rabbit β -globin gene facilitates splicing of the expressed transcript,

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and the polyadenylation signal incorporated into the construct increases the level of expression. These techniques as described are well known to those skilled in the art of molecular biology. Standard methods are published in methods texts such as Davis et al. and many of the methods are available from the technical assistance representatives from Stratagene, Life Technologies, Inc., or Promega. Polypeptide may additionally be produced from either construct using in vitro translation systems such as In vitro Express™ Translation Kit (Stratagene).

Example 26

Production of an Antibody to a Human Protein

Substantially pure protein or polypeptide is isolated from the transfected or transformed cells as described in Example 25. Concentration of protein in the final preparation is adjusted, for example, by concentration on an Amicon filter device, to the level of a few micrograms/ml. Monoclonal or polyclonal antibody to the protein can then be prepared as follows:

A. Monoclonal Antibody Production by Hybridoma Fusion

Monoclonal antibody to epitopes of any of the peptides identified and isolated as described can be prepared from murine hybridomas according to the classical method of Kohler, G. and Milstein, C., *Nature* 256:495 (1975) or derivative methods thereof. Briefly, a mouse is repetitively inoculated with a few micrograms of the selected protein over a period of a few weeks. The mouse is then sacrificed, and the antibody producing cells of the spleen isolated. The spleen cells are fused by means of polyethylene glycol with mouse myeloma cells, and the excess unfused cells destroyed by growth of the system on selective media comprising aminopterin (HAT media). The successfully fused cells are diluted and aliquots of the dilution placed in wells of a

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microtiter plate where growth of the culture is continued. Antibody-producing clones are identified by detection of antibody in the supernatant fluid of the wells by immunoassay procedures, such as Elisa, as originally described by Engvall, E., *Meth. Enzymol.* 70:419 (1980), and derivative methods thereof. Selected positive clones can be expanded and their monoclonal antibody product harvested for use. Detailed procedures for monoclonal antibody production are described in Davis, L. et al. **Basic Methods in Molecular Biology** Elsevier, New York. Section 21-2.

B. Polyclonal Antibody Production by Immunization

Polyclonal antiserum containing antibodies to heterogenous epitopes of a single protein can be prepared by immunizing suitable animals with the expressed protein described above, which can be unmodified or modified to enhance immunogenicity. Effective polyclonal antibody production is affected by many factors related both to the antigen and the host species. For example, small molecules tend to be less immunogenic than other and may require the use of carriers and adjuvant. Also, host animals vary in response to site of inoculations and dose, with both inadequate or excessive doses of antigen resulting in low titer antisera. Small doses (ng level) of antigen administered at multiple intradermal sites appears to be most reliable. An effective immunization protocol for rabbits can be found in Vaitukaitis, J. et al. *J. Clin. Endocrinol. Metab.* 33:988-991 (1971).

Booster injections can be given at regular intervals, and antiserum harvested when antibody titer thereof, as determined semi-quantitatively, for example, by double immunodiffusion in agar against known concentrations of the antigen, begins to fall. See, for example, Ouchterlony, O. et al., Chap. 19 in: **Handbook of Experimental Immunology** D. Wier (ed) Blackwell (1973). Plateau concentration of antibody is usually in the range of 0.1 to 0.2 mg/ml of serum (about 12 μ M). Affinity of the antisera for the antigen is

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determined by preparing competitive binding curves, as described, for example, by Fisher, D., Chap. 42 in: **Manual of Clinical Immunology**, 2d Ed. (Rose and Friedman, eds.) Amer. Soc. For Microbiol., Washington, D.C. (1980).

5 Antibody preparations prepared according to either protocol are useful in quantitative immunoassays which determine concentrations of antigen-bearing substances in biological samples; they are also used semi-quantitatively or qualitatively to identify the presence of antigen in a
10 biological sample.

EXAMPLE 27

Identification of Tissue Types or Cell Species by Means of Labeled Tissue Specific Antibodies

15 Identification of specific tissues is accomplished by the visualization of tissue specific antigens by means of antibody preparations according to Example 26 which are conjugated, directly or indirectly to a detectable marker.
20 Selected labeled antibody species bind to their specific antigen binding partner in tissue sections, cell suspensions, or in extracts of soluble proteins from a tissue sample to provide a pattern for qualitative or semi-qualitative interpretation.

25 Antisera for these procedures must have a potency exceeding that of the native preparation, and for that reason, antibodies are concentrated to a mg/ml level by isolation of the gamma globulin fraction, for example, by ion-exchange chromatography or by ammonium sulfate
30 fractionation. Also, to provide the most specific antisera, unwanted antibodies, for example to common proteins, must be removed from the gamma globulin fraction, for example by means of insoluble immunoabsorbents, before the antibodies are labeled with the marker. Either monoclonal or
35 heterologous antisera is suitable for either procedure.

A. Immunohistochemical Techniques

Purified, high-titer antibodies, prepared as described above, are conjugated to a detectable marker, as described, for example, by Fudenberg, H., Chap. 26 in: **Basic & Clinical Immunology**, 3rd Ed. Lange, Los Altos, California (1980) or Rose, N. et al., Chap. 12 in: **Methods in Immunodiagnosis**, 2d Ed. John Wiley & Sons, New York (1980).

A fluorescent marker, either fluorescein or rhodamine, is preferred, but antibodies can also be labeled with an enzyme that supports a color producing reaction with a substrate, such as horseradish peroxidase. Markers can be added to tissue-bound antibody in a second step, as described below. Alternatively, the specific antitissue antibodies can be labeled with ferritin or other electron dense particles, and localization of the ferritin coupled antigen-antibody complexes achieved by means of an electron microscope. In yet another approach, the antibodies are radiolabeled, with, for example ^{125}I , and detected by overlaying the antibody treated preparation with photographic emulsion.

Preparations to carry out the procedures can comprise monoclonal or polyclonal antibodies to a single gene copy or protein, identified as specific to a tissue type, for example, brain tissue, or antibody preparations to several antigenically distinct tissue specific antigens can be used in panels, independently or in mixtures, as required.

Tissue sections and cell suspensions are prepared for immunohistochemical examination according to common histological techniques. Multiple cryostat sections (about 4 μm , unfixed) of the unknown tissue and known control, are mounted and each slide covered with different dilutions of the antibody preparation. Sections of known and unknown tissues should also be treated with preparations to provide a positive control, a negative control, for example, pre-immune sera, and a control for non-specific staining, for example, buffer.

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Treated sections are incubated in a humid chamber for 30 min at room temperature, rinsed, then washed in buffer for 30-45 min. Excess fluid is blotted away, and the marker developed.

5 If the tissue specific antibody was not labeled in the first incubation, it can be labeled at this time in a second antibody-antibody reaction, for example, by adding fluorescein- or enzyme-conjugated antibody against the immunoglobulin class of the antiserum-producing species, for
10 example, fluorescein labeled antibody to mouse IgG. Such labeled sera are commercially available.

15 The antigen found in the tissues by the above procedure can be quantified by measuring the intensity of color or fluorescence on the tissue section, and calibrating that signal using appropriate standards.

B. Identification of Tissue Specific Soluble Proteins

20 The visualization of tissue specific proteins and identification of unknown tissues from that procedure is carried out using the labeled antibody reagents and detection strategy as described for immunohistochemistry; however the sample is prepared according to an electrophoretic technique to distribute the proteins extracted from the tissue in an orderly array on the basis of molecular weight for detection.

25 A tissue sample is homogenized using a Virtis apparatus; cell suspensions are disrupted by Dounce homogenization or osmotic lysis, using detergents in either case as required to disrupt cell membranes, as is the practice in the art. Insoluble cell components such as nuclei, microsomes, and membrane fragments are removed by ultracentrifugation, and
30 the soluble protein-containing fraction concentrated if necessary and reserved for analysis.

35 A sample of the soluble protein solution is resolved into individual protein species by conventional SDS polyacrylamide electrophoresis as described, for example, by Davis, L. et al., Section 19-2 in: **Basic Methods in Molecular Biology** (P. Leder, ed), Elsevier, New York (1986), using a

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range of amounts of polyacrylamide in a set of gels to resolve the entire molecular weight range of proteins to be detected in the sample. A size marker is run in parallel for purposes of estimating molecular weights of the constituent proteins. Sample size for analysis is a convenient volume of from 5-50 μ l, and containing from about 1 to 100 μ g protein. An aliquot of each of the resolved proteins is transferred by blotting to a nitrocellulose filter paper, a process that maintains the pattern of resolution. Multiple copies are prepared. The procedure, known as Western Blot Analysis, is well described in Davis, L. et al., (above) Section 19-3. One set of nitrocellulose blots is stained with Coomassie Blue dye to visualize the entire set of proteins for comparison with the antibody bound proteins. The remaining nitrocellulose filters are then incubated with a solution of one or more specific antisera to tissue specific proteins prepared as described in Example 26. In this procedure, as in procedure A above, appropriate positive and negative sample and reagent controls are run.

In either procedure A or B, a detectable label can be attached to the primary tissue antigen-primary antibody complex according to various strategies and permutations thereof. In a straightforward approach, the primary specific antibody can be labeled; alternatively, the unlabeled complex can be bound by a labeled secondary anti-IgG antibody. In other approaches, either the primary or secondary antibody is conjugated to a biotin molecule, which can, in a subsequent step, bind an avidin conjugated marker. According to yet another strategy, enzyme labeled or radioactive protein A, which has the property of binding to any IgG, is bound in a final step to either the primary or secondary antibody.

The visualization of tissue specific antigen binding at levels above those seen in control tissues to one or more tissue specific antibodies, prepared from the gene sequences identified from EST sequences, can identify tissues of unknown origin, for example, forensic samples, or

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differentiated tumor tissue that has metastasized to foreign bodily sites.

The entire contents of all references cited above are hereby incorporated by reference.

5 While the present invention has been described in some detail for purposes of clarity and understanding, one skilled in the art will appreciate that various changes in form and detail can be made without departing from the true scope of the invention.

10

VII. Correlation of EST and Clone Identifiers

15 The EST sequences of the present invention are identified herein by SEQ ID NO, and are identified in the GenBank database by a different number, are identified in the inventors' lab (and upcoming publications) by EST number, and clones have been submitted to the American Type Culture Collection (Rockville, Maryland USA) under clone names. Table 12 cross references those different numbers for the ESTs from cDNA, SEQ ID NOS 1-2409.

20 Certain Sequence ID NOS are excluded from some claims based on their homology to known non-human sequences (See Table 2).

Table 12. SEQ ID NO Cross References

SEQ ID	EST#	GB#	Clone	SEQ ID	EST#	GB#	Clone	SEQ ID	EST#	GB#	Clone	SEQ ID	EST#	GB#	Clone	SEQ ID	EST#	GB#	Clone
1	EST00007	MG1959	HFA01	64	EST00066	M2010	HCC13	128	EST00252	M62191	HCC57	128	EST00252	M62191	HCC57	128	EST00252	M62191	HCC57
2	EST00009	MG1953	HFA05	65	EST00067	M2011	HCC18	129	EST00321	M62254	HCC60	129	EST00321	M62254	HCC60	129	EST00321	M62254	HCC60
3	EST00010	MG1961	HFA07	66	EST00068	M2012	HCC21	130	EST00332	M62280	HCC22	130	EST00332	M62280	HCC22	130	EST00332	M62280	HCC22
4	EST00011	MG1962	HFA08	67	EST00069	M2013	HCC23	131	EST00110	M62255	HCC25	131	EST00110	M62255	HCC25	131	EST00110	M62255	HCC25
5	EST00012	MG1963	HFA10	68	EST00070	M2014	HCC27	132	EST00111	M62256	HCC27	132	EST00111	M62256	HCC27	132	EST00111	M62256	HCC27
6	EST00013	MG1964	HFA11	69	EST00071	M2015	HCC29	133	EST00112	M62257	HCC29	133	EST00112	M62257	HCC29	133	EST00112	M62257	HCC29
7	EST00014	MG1965	HFA12	70	EST00072	M2016	HCC31	134	EST00113	M62258	HCC31	134	EST00113	M62258	HCC31	134	EST00113	M62258	HCC31
8	EST00015	MG1966	HFA13	71	EST00073	M2017	HCC33	135	EST00114	M62259	HCC33	135	EST00114	M62259	HCC33	135	EST00114	M62259	HCC33
9	EST00016	MG1967	HFA14	72	EST00074	M2018	HCC35	136	EST00115	M62260	HCC35	136	EST00115	M62260	HCC35	136	EST00115	M62260	HCC35
10	EST00017	MG1968	HFA15	73	EST00075	M2019	HCC37	137	EST00116	M62261	HCC37	137	EST00116	M62261	HCC37	137	EST00116	M62261	HCC37
11	EST00018	MG1969	HFA16	74	EST00076	M2020	HCC39	138	EST00117	M62262	HCC39	138	EST00117	M62262	HCC39	138	EST00117	M62262	HCC39
12	EST00019	MG1970	HFA17	75	EST00077	M2021	HCC41	139	EST00118	M62263	HCC41	139	EST00118	M62263	HCC41	139	EST00118	M62263	HCC41
13	EST00020	MG1971	HFA18	76	EST00078	M2022	HCC43	140	EST00119	M62264	HCC43	140	EST00119	M62264	HCC43	140	EST00119	M62264	HCC43
14	EST00021	MG1972	HFA19	77	EST00079	M2023	HCC45	141	EST00120	M62265	HCC45	141	EST00120	M62265	HCC45	141	EST00120	M62265	HCC45
15	EST00022	MG1973	HFA20	78	EST00080	M2024	HCC47	142	EST00121	M62266	HCC47	142	EST00121	M62266	HCC47	142	EST00121	M62266	HCC47
16	EST00023	MG1974	HFA21	79	EST00081	M2025	HCC49	143	EST00122	M62267	HCC49	143	EST00122	M62267	HCC49	143	EST00122	M62267	HCC49
17	EST00024	MG1975	HFA22	80	EST00082	M2026	HCC51	144	EST00123	M62268	HCC51	144	EST00123	M62268	HCC51	144	EST00123	M62268	HCC51
18	EST00025	MG1976	HFA23	81	EST00083	M2027	HCC53	145	EST00124	M62269	HCC53	145	EST00124	M62269	HCC53	145	EST00124	M62269	HCC53
19	EST00026	MG1977	HFA24	82	EST00084	M2028	HCC55	146	EST00125	M62270	HCC55	146	EST00125	M62270	HCC55	146	EST00125	M62270	HCC55
20	EST00027	MG1978	HFA25	83	EST00085	M2029	HCC57	147	EST00126	M62271	HCC57	147	EST00126	M62271	HCC57	147	EST00126	M62271	HCC57
21	EST00028	MG1979	HFA26	84	EST00086	M2030	HCC59	148	EST00127	M62272	HCC59	148	EST00127	M62272	HCC59	148	EST00127	M62272	HCC59
22	EST00029	MG1980	HFA27	85	EST00087	M2031	HCC61	149	EST00128	M62273	HCC61	149	EST00128	M62273	HCC61	149	EST00128	M62273	HCC61
23	EST00030	MG1981	HFA28	86	EST00088	M2032	HCC63	150	EST00129	M62274	HCC63	150	EST00129	M62274	HCC63	150	EST00129	M62274	HCC63
24	EST00031	MG1982	HFA29	87	EST00089	M2033	HCC65	151	EST00130	M62275	HCC65	151	EST00130	M62275	HCC65	151	EST00130	M62275	HCC65
25	EST00032	MG1983	HFA30	88	EST00090	M2034	HCC67	152	EST00131	M62276	HCC67	152	EST00131	M62276	HCC67	152	EST00131	M62276	HCC67
26	EST00033	MG1984	HFA31	89	EST00091	M2035	HCC69	153	EST00132	M62277	HCC69	153	EST00132	M62277	HCC69	153	EST00132	M62277	HCC69
27	EST00034	MG1985	HFA32	90	EST00092	M2036	HCC71	154	EST00133	M62278	HCC71	154	EST00133	M62278	HCC71	154	EST00133	M62278	HCC71
28	EST00035	MG1986	HFA33	91	EST00093	M2037	HCC73	155	EST00134	M62279	HCC73	155	EST00134	M62279	HCC73	155	EST00134	M62279	HCC73
29	EST00036	MG1987	HFA34	92	EST00094	M2038	HCC75	156	EST00135	M62280	HCC75	156	EST00135	M62280	HCC75	156	EST00135	M62280	HCC75
30	EST00037	MG1988	HFA35	93	EST00095	M2039	HCC77	157	EST00136	M62281	HCC77	157	EST00136	M62281	HCC77	157	EST00136	M62281	HCC77
31	EST00038	MG1989	HFA36	94	EST00096	M2040	HCC79	158	EST00137	M62282	HCC79	158	EST00137	M62282	HCC79	158	EST00137	M62282	HCC79
32	EST00039	MG1990	HFA37	95	EST00097	M2041	HCC81	159	EST00138	M62283	HCC81	159	EST00138	M62283	HCC81	159	EST00138	M62283	HCC81
33	EST00040	MG1991	HFA38	96	EST00098	M2042	HCC83	160	EST00139	M62284	HCC83	160	EST00139	M62284	HCC83	160	EST00139	M62284	HCC83
34	EST00041	MG1992	HFA39	97	EST00099	M2043	HCC85	161	EST00140	M62285	HCC85	161	EST00140	M62285	HCC85	161	EST00140	M62285	HCC85
35	EST00042	MG1993	HFA40	98	EST00100	M2044	HCC87	162	EST00141	M62286	HCC87	162	EST00141	M62286	HCC87	162	EST00141	M62286	HCC87
36	EST00043	MG1994	HFA41	99	EST00101	M2045	HCC89	163	EST00142	M62287	HCC89	163	EST00142	M62287	HCC89	163	EST00142	M62287	HCC89
37	EST00044	MG1995	HFA42	100	EST00102	M2046	HCC91	164	EST00143	M62288	HCC91	164	EST00143	M62288	HCC91	164	EST00143	M62288	HCC91
38	EST00045	MG1996	HFA43	101	EST00103	M2047	HCC93	165	EST00144	M62289	HCC93	165	EST00144	M62289	HCC93	165	EST00144	M62289	HCC93
39	EST00046	MG1997	HFA44	102	EST00104	M2048	HCC95	166	EST00145	M62290	HCC95	166	EST00145	M62290	HCC95	166	EST00145	M62290	HCC95
40	EST00047	MG1998	HFA45	103	EST00105	M2049	HCC97	167	EST00146	M62291	HCC97	167	EST00146	M62291	HCC97	167	EST00146	M62291	HCC97
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45	EST00052	MG2003	HFA50	108	EST00110	M2054	HCC107	172	EST00151	M62296	HCC107	172	EST00151	M62296	HCC107	172	EST00151	M62296	HCC107
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47	EST00054	MG2005	HFA52	110	EST00112	M2056	HCC111	174	EST00153	M62298	HCC111	174	EST00153	M62298	HCC111	174	EST00153	M62298	HCC111
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49	EST00056	MG2007	HFA54	112	EST00114	M2058	HCC115	176	EST00155	M62300	HCC115	176	EST00155	M62300	HCC115	176	EST00155	M62300	HCC115
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51	EST00058	MG2009	HFA56	114	EST00116	M2060	HCC119	178	EST00157	M62302	HCC119	178	EST00157	M62302	HCC119	178	EST00157	M62302	HCC119
52	EST00059	MG2010	HFA57	115	EST00117	M2061	HCC121	179	EST00158	M62303	HCC121	179	EST00158	M62303	HCC121	179	EST00158	M62303	HCC121
53	EST00060	MG2011	HFA58	116	EST00118	M2062	HCC123	180	EST00159	M62304	HCC123	180	EST00159	M62304	HCC123	180	EST00159	M62304	HCC123
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55	EST00062	MG2013	HFA60	118	EST00120	M2064	HCC127												
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59	EST00066	MG2017	HFA64	122	EST00124	M2068	HCC135												
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62	EST00069	MG2020	HFA67	125	EST00127	M2071	HCC141												
63	EST00070	MG2021	HFA68	126	EST00128	M2072	HCC143												
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SUBSTITUTE SHEET

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184	EST00149	M62090	HHC162	119	EST100381	M62137	HHC162	119	EST100381	M62137	HHC162
185	EST00150	M62091	HHC173	120	EST100382	M62138	HHC173	120	EST100382	M62138	HHC173
186	EST00151	M62092	HHC175	121	EST100383	M62139	HHC175	121	EST100383	M62139	HHC175
187	EST00152	M62093	HHC179	122	EST100384	M62140	HHC179	122	EST100384	M62140	HHC179
188	EST00153	M62119	HHC184	123	EST100385	M62141	HHC184	123	EST100385	M62141	HHC184
189	EST00154	M62094	HHC185	124	EST100386	M62142	HHC185	124	EST100386	M62142	HHC185
190	EST00155	M62095	HHC186	125	EST100387	M62143	HHC186	125	EST100387	M62143	HHC186
191	EST00156	M62096	HHC190	126	EST100388	M62144	HHC190	126	EST100388	M62144	HHC190
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193	EST00158	M62098	HHC193	128	EST100390	M62146	HHC193	128	EST100390	M62146	HHC193
194	EST00159	M62099	HHC194	129	EST100391	M62147	HHC194	129	EST100391	M62147	HHC194
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196	EST00161	M62101	HHC107	131	EST100393	M62149	HHC107	131	EST100393	M62149	HHC107
197	EST00162	M62102	HHC109	132	EST100394	M62150	HHC109	132	EST100394	M62150	HHC109
198	EST00163	M62103	HHC113	133	EST100395	M62151	HHC113	133	EST100395	M62151	HHC113
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200	EST00165	M62105	HHC117	135	EST100397	M62153	HHC117	135	EST100397	M62153	HHC117
201	EST00166	M62106	HHC129	136	EST100398	M62154	HHC129	136	EST100398	M62154	HHC129
202	EST00167	M62107	HHC130	137	EST100399	M62155	HHC130	137	EST100399	M62155	HHC130
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205	EST00170	M62110	HHC135	140	EST100402	M62158	HHC135	140	EST100402	M62158	HHC135
206	EST00171	M62111	HHC136	141	EST100403	M62159	HHC136	141	EST100403	M62159	HHC136
207	EST00172	M62112	HHC137	142	EST100404	M62160	HHC137	142	EST100404	M62160	HHC137
208	EST00173	M62113	HHC142	143	EST100405	M62161	HHC142	143	EST100405	M62161	HHC142
209	EST00174	M62114	HHC143	144	EST100406	M62162	HHC143	144	EST100406	M62162	HHC143
210	EST00175	M62115	HHC147	145	EST100407	M62163	HHC147	145	EST100407	M62163	HHC147
211	EST00176	M62116	HHC150	146	EST100408	M62164	HHC150	146	EST100408	M62164	HHC150
212	EST00177	M62117	HHC151	147	EST100409	M62165	HHC151	147	EST100409	M62165	HHC151
213	EST00178	M62118	HHC159	148	EST100410	M62166	HHC159	148	EST100410	M62166	HHC159
214	EST00179	M62119	HHC160	149	EST100411	M62167	HHC160	149	EST100411	M62167	HHC160
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216	EST00181	M62121	HHC162	151	EST100413	M62169	HHC162	151	EST100413	M62169	HHC162
217	EST00182	M62122	HHC167	152	EST100414	M62170	HHC167	152	EST100414	M62170	HHC167
218	EST00183	M62123	HHC173	153	EST100415	M62171	HHC173	153	EST100415	M62171	HHC173
219	EST00184	M62124	HHC174	154	EST100416	M62172	HHC174	154	EST100416	M62172	HHC174
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225	EST00190	M62130	HHC189	160	EST100422	M62178	HHC189	160	EST100422	M62178	HHC189
226	EST00191	M62131	HHC192	161	EST100423	M62179	HHC192	161	EST100423	M62179	HHC192
227	EST00192	M62132	HHC193	162	EST100424	M62180	HHC193	162	EST100424	M62180	HHC193
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229	EST00194	M62134	HHC196	164	EST100426	M62182	HHC196	164	EST100426	M62182	HHC196
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248	EST00213	M62153	HHC196	183	EST100445	M62201	HHC196	183	EST100445	M62201	HHC196
249	EST00214	M62154	HHC196	184	EST100446	M62202	HHC196	184	EST100446	M62202	HHC196
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253	EST00218	M62158	HHC196	188	EST100450	M62206	HHC196	188	EST100450	M62206	HHC196
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257	EST00222	M62162	HHC196	192	EST100454	M62210	HHC196	192	EST100454	M62210	HHC196
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260	EST00225	M62165	HHC196	195	EST100457	M62213	HHC196	195	EST100457	M62213	HHC196
261	EST00226	M62166	HHC196	196	EST100458	M62214	HHC196	196	EST100458	M62214	HHC196
262	EST00227	M62167	HHC196	197	EST100459	M62215	HHC196	197	EST100459	M62215	HHC196
263	EST00228	M62168	HHC196	198	EST100460	M62216	HHC196	198	EST100460	M62216	HHC196
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266	EST00231	M62171	HHC196	201	EST100463	M62219	HHC196	201	EST100463	M62219	HHC196
267	EST00232	M62172	HHC196	202	EST100464	M62220	HHC196	202	EST100464	M62220	HHC196
268	EST00233	M62173	HHC196	203	EST100465	M62221	HHC196	203	EST100465	M62221	HHC196
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279	EST00244	M62184	HHC196	214	EST100476	M62232	HHC196	214	EST100476	M62232	HHC196
280	EST00245	M62185	HHC196	215	EST100477	M62233	HHC196	215	EST100477	M62233	HHC196
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376	EST01436	M78282	HFBA33	442	EST01456	M77872	HFBCA26	509	EST01472	M78388	HFBCB15	555	EST00338	M78390	HFBCB22	556	EST00339	M78391	HFBCB23
377	EST00430	M78283	HFBA34	443	EST00483	M78335	HFBCA27	510	EST00332	M78385	HFBCB16	557	EST00340	M78392	HFBCB24	558	EST00341	M78393	HFBCB25
378	EST00431	M78284	HFBA35	444	EST00484	M78336	HFBCA28	511	EST00333	M78386	HFBCB19	559	EST00342	M78394	HFBCB26	560	EST00343	M78395	HFBCB27
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380	EST00433	M78286	HFBA37	446	EST00486	M78338	HFBCA30	513	EST00335	M78388	HFBCB21	563	EST00346	M78398	HFBCB30	564	EST00347	M78399	HFBCB31
381	EST00434	M78287	HFBA38	447	EST00487	M78339	HFBCA31	514	EST00336	M78389	HFBCB22	565	EST00348	M78400	HFBCB32	566	EST00349	M78401	HFBCB33
382	EST00435	M78288	HFBA39	448	EST00488	M78340	HFBCA32	515	EST00337	M78390	HFBCB23	567	EST00350	M78402	HFBCB34	568	EST00351	M78403	HFBCB35
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393	EST00446	M78299	HFBA50	459	EST00499	M78351	HFBCA43	526	EST00348	M78401	HFBCB34	589	EST00372	M78424	HFBCB56	590	EST00373	M78425	HFBCB57
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1393	EST022372	M85901	HFBCN165
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1495	EST022474	M86003	HFBCN267
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1317	EST02347	M85933	HFBC041	1449	EST02485	M85961	HFBC103
1318	EST02348	M85934	HFBC042	1450	EST02486	M85962	HFBC104
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1321	EST02351	M85937	HFBC045	1453	EST02489	M85965	HFBC107
1322	EST02352	M85938	HFBC046	1454	EST02490	M85966	HFBC108
1323	EST02353	M85939	HFBC047	1455	EST02491	M85967	HFBC109
1324	EST02354	M85940	HFBC048	1456	EST02492	M85968	HFBC110
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1327	EST02357	M85943	HFBC051	1459	EST02495	M85971	HFBC113
1328	EST02358	M85944	HFBC052	1460	EST02496	M85972	HFBC114
1329	EST02359	M85945	HFBC053	1461	EST02497	M85973	HFBC115
1330	EST02360	M85946	HFBC054	1462	EST02498	M85974	HFBC116
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1332	EST02362	M85948	HFBC056	1464	EST02500	M85976	HFBC118
1333	EST02363	M85949	HFBC057	1465	EST02501	M85977	HFBC119
1334	EST02364	M85950	HFBC058	1466	EST02502	M85978	HFBC120
1335	EST02365	M85951	HFBC059	1467	EST02503	M85979	HFBC121
1336	EST02366	M85952	HFBC060	1468	EST02504	M85980	HFBC122
1337	EST02367	M85953	HFBC061	1469	EST02505	M85981	HFBC123
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1340	EST02370	M85956	HFBC064	1472	EST02508	M85984	HFBC126
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1342	EST02372	M85958	HFBC066	1474	EST02510	M85986	HFBC128
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SUBSTITUTE SHEET

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1306	EST02614	M86019	HFBCY32	1694	EST01580	M77995	HCMC42
1307	EST02615	M86020	HFBCY33	1695	EST01581	M77996	HCMC43
1308	EST02616	M86021	HFBCY34	1696	EST01582	M77997	HCMC44
1309	EST02617	M86022	HFBCY35	1697	EST01583	M77998	HCMC45
1310	EST02618	M86023	HFBCY36	1698	EST01584	M77999	HCMC46
1311	EST02619	M86024	HFBCY37	1699	EST01585	M78000	HCMC47
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1313	EST02621	M86026	HFBCY39	1701	EST01587	M78002	HCMC49
1314	EST02622	M86027	HFBCY40	1702	EST01588	M78003	HCMC50
1315	EST02623	M86028	HFBCY41	1703	EST01589	M78004	HCMC51
1316	EST02624	M86029	HFBCY42	1704	EST01590	M78005	HCMC52
1317	EST02625	M86030	HFBCY43	1705	EST01591	M78006	HCMC53
1318	EST02626	M86031	HFBCY44	1706	EST01592	M78007	HCMC54
1319	EST02627	M86032	HFBCY45	1707	EST01593	M78008	HCMC55
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1321	EST02629	M86034	HFBCY47	1709	EST01595	M78010	HCMC57
1322	EST02630	M86035	HFBCY48	1710	EST01596	M78011	HCMC58
1323	EST02631	M86036	HFBCY49	1711	EST01597	M78012	HCMC59
1324	EST02632	M86037	HFBCY50	1712	EST01598	M78013	HCMC60
1325	EST02633	M86038	HFBCY51	1713	EST01599	M78014	HCMC61
1326	EST02634	M86039	HFBCY52	1714	EST01600	M78015	HCMC62
1327	EST02635	M86040	HFBCY53	1715	EST01601	M78016	HCMC63
1328	EST02636	M86041	HFBCY54	1716	EST01602	M78017	HCMC64
1329	EST02637	M86042	HFBCY55	1717	EST01603	M78018	HCMC65
1330	EST02638	M86043	HFBCY56	1718	EST01604	M78019	HCMC66
1331	EST02639	M86044	HFBCY57	1719	EST01605	M78020	HCMC67
1332	EST02640	M86045	HFBCY58	1720	EST01606	M78021	HCMC68
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1334	EST02642	M86047	HFBCY60	1722	EST01608	M78023	HCMC70
1335	EST02643	M86048	HFBCY61	1723	EST01609	M78024	HCMC71
1336	EST02644	M86049	HFBCY62	1724	EST01610	M78025	HCMC72
1337	EST02645	M86050	HFBCY63	1725	EST01611	M78026	HCMC73
1338	EST02646	M86051	HFBCY64	1726	EST01612	M78027	HCMC74
1339	EST02647	M86052	HFBCY65	1727	EST01613	M78028	HCMC75
1340	EST02648	M86053	HFBCY66	1728	EST01614	M78029	HCMC76
1341	EST02649	M86054	HFBCY67	1729	EST01615	M78030	HCMC77
1342	EST02650	M86055	HFBCY68	1730	EST01616	M78031	HCMC78
1343	EST02651	M86056	HFBCY69	1731	EST01617	M78032	HCMC79
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1345	EST02653	M86058	HFBCY71	1733	EST01619	M78034	HCMC81
1346	EST02654	M86059	HFBCY72	1734	EST01620	M78035	HCMC82
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1369	EST02677	M86082	HFBCY95	1757	EST01643	M78058	HCMC105
1370	EST02678	M86083	HFBCY96	1758	EST01644	M78059	HCMC106
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1377	EST02685	M86090	HFBCY103	1765	EST01651	M78066	HCMC113
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1381	EST02689	M86094	HFBCY107	1769	EST01655	M78070	HCMC117
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1385	EST02693	M86098	HFBCY111	1773	EST01659	M78074	HCMC121
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1392	EST02700	M86105	HFBCY118	1780	EST01666	M78081	HCMC128
1393	EST02701	M86106	HFBCY119	1781	EST01667	M78082	HCMC129
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1397	EST02705	M86110	HFBCY123	1785	EST01671	M78086	HCMC133
1398	EST02706	M86111	HFBCY124	1786	EST01672	M78087	HCMC134
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1409	EST02717	M86122	HFBCY135	1797	EST01683	M78098	HCMC145
1410	EST02718	M86123	HFBCY136	1798	EST01684	M78099	HCMC146
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1413	EST02721	M86126	HFBCY139	1801	EST01687	M78102	HCMC149
1414	EST02722	M86127	HFBCY140	1802	EST01688	M78103	HCMC150
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1927	EST01046	M78898	HHCPC54	2063	EST010153	M78905	HHCPC51	2135	EST010196	M79046	HHCPC65	2114	EST010215	M78149	HHCPC59	2113	EST010215	M78149	HHCPC59
1928	EST01047	M78899	HHCPC55	2064	EST010154	M78906	HHCPC52	2136	EST010197	M79047	HHCPC66	2115	EST010216	M78150	HHCPC60	2114	EST010216	M78150	HHCPC60
1929	EST01048	M78900	HHCPC56	2065	EST010155	M78907	HHCPC53	2137	EST010198	M79048	HHCPC67	2116	EST010217	M78151	HHCPC61	2115	EST010217	M78151	HHCPC61
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1933	EST01052	M78904	HHCPC60	2069	EST010159	M78911	HHCPC57	2141	EST010202	M79052	HHCPC71	2120	EST010221	M78155	HHCPC65	2119	EST010221	M78155	HHCPC65
1934	EST01053	M78905	HHCPC61	2070	EST010160	M78912	HHCPC58	2142	EST010203	M79053	HHCPC72	2121	EST010222	M78156	HHCPC66	2120	EST010222	M78156	HHCPC66
1935	EST01054	M78906	HHCPC62	2071	EST010161	M78913	HHCPC59	2143	EST010204	M79054	HHCPC73	2122	EST010223	M78157	HHCPC67	2121	EST010223	M78157	HHCPC67
1936	EST01055	M78907	HHCPC63	2072	EST010162	M78914	HHCPC60	2144	EST010205	M79055	HHCPC74	2123	EST010224	M78158	HHCPC68	2122	EST010224	M78158	HHCPC68
1937	EST01056	M78908	HHCPC64	2073	EST010163	M78915	HHCPC61	2145	EST010206	M79056	HHCPC75	2124	EST010225	M78159	HHCPC69	2123	EST010225	M78159	HHCPC69
1938	EST01057	M78909	HHCPC65	2074	EST010164	M78916	HHCPC62	2146	EST010207	M79057	HHCPC76	2125	EST010226	M78160	HHCPC70	2124	EST010226	M78160	HHCPC70
1939	EST01058	M78910	HHCPC66	2075	EST010165	M78917	HHCPC63	2147	EST010208	M79058	HHCPC77	2126	EST010227	M78161	HHCPC71	2125	EST010227	M78161	HHCPC71

[illegible]

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2263	EST01417	M79262	HRBA07
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2265	EST01419	M79264	HRBA26
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2267	EST01421	M79266	HRBA04
2268	EST01422	M79267	HRBA06
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2339	EST02778	M86243	HRBA89
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Seq. ID	EST#	Gene	Clone
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2261	EST01306	M79158	HCCPN60
2262	EST01307	M79159	HCCPN63
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2266	EST01310	M79162	HCCPN70
2267	EST01311	M79163	HCCPN76
2268	EST01312	M79164	HCCPN92
2269	EST01313	M79165	HCCPN96
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2271	EST01315	M79167	HCCPN03
2272	EST01316	M86172	HCCPN05
2273	EST01317	M86173	HCCPN06
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2275	EST01319	M79170	HCCPN10
2276	EST01320	M79171	HCCPN21
2277	EST01321	M79172	HCCPN22
2278	EST01322	M79173	HCCPN23
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2280	EST01324	M79175	HCCPN25
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2323	EST01367	M79218	HCCPN70
2324	EST01368	M79219	HCCPN71
2325	EST01369	M79220	HCCPN72

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NOTE REGARDING SEQUENCE LISTINGS: The listings of SEQ ID NOS: 1-2421 are in numerical order. However, an occasional number (for example, SEQ ID NO: 44) is not found in this list. In all, 9 SEQ ID NOS are not used. Nevertheless, the
5 convention "1-2421" is used, for example, to refer to all the SEQ ID NOS in the following list, while "1-315" is used, for example, to refer to all the listed sequences falling between SEQ ID NO 1 and SEQ ID NO 315.

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SEQUENCE LISTING

(1) GENERAL INFORMATION:

(i) APPLICANT: Venter, J. Craig
Adams, Mark D.
Moreno, Ruben F.

(ii) TITLE OF INVENTION: Sequences Characteristic of Human Gene
Transcription Product

(iii) NUMBER OF SEQUENCES: 2412 (1-2421, with 9 SEQ ID NOS unused.)

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Knobbe, Martens, Olson, and Bear
(B) STREET: 620 Newport Center Dr. Sixteenth Floor
(C) CITY: Newport Beach
(D) STATE: CA
(E) COUNTRY: USA
(F) ZIP: 92660

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk
(B) COMPUTER: IBM PC compatible
(C) OPERATING SYSTEM: PC-DOS/MS-DOS
(D) SOFTWARE: PatentIn Release #1.0, Version #1.25

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: 07/837,195
(B) FILING DATE: 12-FEB-1992

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: US 07/716,831
(B) FILING DATE: 20-JUN-1991

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: Israelsen, Ned A.
(B) REGISTRATION NUMBER: 29,655
(C) REFERENCE/DOCKET NUMBER: NIH004.004CP1

(ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: 619-235-8550
(B) TELEFAX: 619-235-0176

SEQ ID NO:1: (Length of Sequence = 362 Nucleotides)

CTTCCCTTTT GTTCCCTCA GTGTCCTTT TAATGCTTC CCTCCATTTT CCTTAGCAGC ATCCTAGTTG ATGGTCGGG
TTATCAGAGG AGCAAAAACA TTAAAGTGT AAATAATGCT CATGTCTCC CTGGGATTTC TAAACAGAAA AAATGAAGAA

112

AGAGGCAGAG AAGAGCTTCA CAAGGTGIGT GCCAGCTCTG CATCATTTCC AGCTGCTCAA CCACCATTTT TCCCATTTTA
GGTCCCCAAA AGTAGGAGGT GGGGCTTCAC AGAGCTGCTG TGGGCTTTGG GTATCAAAAG CTGCAGCCAC CATATGGGGC
ACTCTGGCT GGTGTACAGG GTGGGCATTG CCCAGGTCTT TT

SEQ ID NO:2: (Length of Sequence = 214 Nucleotides)

GTTTNTCTTT TTTCTTAGCT TCATTTCTCT TAAAAACAA GGAACAAGAA AACATTGCAC CAGCGTTCTA AGCCTCAAAC
AAAANACAAA ACAATCCCC CTGCGAAGAA CAATAAATTT TACATCTCTT TGGCAACAAT AACITAAAAT CACCCAACIT
CCATTGCTC CAACCACAGC AGTTAGTTAG TTACAAAAAT ATTCCNTGTG CTGC

SEQ ID NO:3: (Length of Sequence = 344 Nucleotides)

ATTAATAGGA AAGATGATTG TATAGATGGT GGGCTATTAA CTCAGATCAG GATGAGAATC GGGAGTGCCT TTACATGTGT
GGTACCCAAA TGGGTGGTIG GATATAAGAG TAACAAAAGG ACTGAAAGGG TTAAAAAGA AAGAAAAAAA AAAAATCCCC
TGGTTGGGAG GGTGTTAAGT ATCGAGTGT TTTCCAAACC ATTCTCTCTC TGCTCACCTA CCCCTAGGTG ATTAAAGGAG
ATAACTTTTA AAAAAGAAAG AATTGGCTCA AAGGTACTGT AAATTTCTAGG ATTATATACC TTTATATAGG TTCATTCCTT
GATCCCTGTA TTATCAAGGC ACAG

SEQ ID NO:4: (Length of Sequence = 352 Nucleotides)

GACCCGGTAA CCGAGGCGGC AAGGAGGCCA GGTAGTCCCG GCACCTCTCA CTCTGCAGAG ACCAGCGGCT TCGTGGGAGG
CCTGTGGGTC ACACGTAGGG GCTAGAGCCA GCCTGCATCC TGCCACCGG GCTCCACTTG GAGATCAGCA GGAGGGCCAG
TGTGGGACCC CTGCTGCCAC CTCTCTGGG CCTGTCTCTT TCTGGAAAT TAAGAAGGTG TGCTCCAGAG CCAAGAGGAG
CAATAAGAAA CCTCGTGTGC CAGCTTCTTA AGGGTKGCAG TGCAAGACCC CA

SEQ ID NO:5: (Length of Sequence = 562 Nucleotides)

ATACCCCTAC ATATATATTC ACAGAAAATC ATATTGCATA TACTCTTTCT CCACATCATA AAAATGGGTG TTGGGCTCTC
TAGGACACAA GGAAGCAGG CCAAATTTCT CATATTTTCA GGAATAAACT GAGTGCCCCG AAGGTGTAAT AGGAACCTTT
TACTAACCTC ATCTGACTTC ATCTCACAC CAGCATTTTG TGTGTAAGGA AACTGGCCGA GAGTGGTTAA GAAATATATC
CAAAGACGTA TAGTTCCAAA TGAACACGG ATCTTTTAT TTAAATTCCA ATCATCTTTC CATTATATCA GCCAATGATG
GAGCAGAAAG CTGTCCAGG CAATCCAGA ATAGATCTTT CTAGGCACCC GTTCAGTGTG AGGAGGGGGA AGTGGCCTTG
CCAAGGGGCC AGTGAGCTCA ATTAGGGTTA ACGCTGCTTC TTAGCCTACC CCAGGGGNCA CCGCATTAG GTTGTTTTGT
GCCAGCTTT GGCAGGAAGC ATTCTCTCTT TCAAAGATIN NAGCCTTGCG GTCATATATC GGGTGTAAATA GGGTCTTTTT
TT

SEQ ID NO:6: (Length of Sequence = 359 Nucleotides)

ACATGTTCTC CCTCTTTCAA TTTTAGCAGT AATGTGATCC TCAAAAATGC ATTAATACTA GTTGAAGTAA ATAAACGGAA
GAGCTCCAAA ATGCTGCAT TAAATGCATT TTTCCACACT AATGCCAATC ATCCAAGCT ATTTTCAACA AGTCAGGTAT
TCAAAGCTAT TCACACCACT TGAAAGAGTA ATTACCATTT ACTGAAGCAC TTATCTGTCC TACACTGATG GGAGTAAATG
CTTCTCATAG GTTATCTCAT GTACATTATG CCACCTTAC TTAAATGAT CACAATTNAG TGCTATAGGT TTTTGGGTTA
ATGTTTTCCT NGGGGGAGTT GTTAAAAACA TGGCATTTT

SEQ ID NO:7: (Length of Sequence = 218 Nucleotides)

113

AACTTGCAAC ATAAATACTA GAAAAAGAGA AAATATCATC AAAATACAAA TAACTGTTAG AAATCATTGC TCAAAAGAAR
 AACCTGGCAA TGCATGATTA CGAAATGCAA AAGAMGATAC AGTTGCTCTC TGTATATGCG CTTTCCACAT CCACAGATTC
 AAACAACGTG GGATAAAAAA GGATTTTCA ATGCCATTAA ACAVCAATGC AACAGTAA

SEQ ID NO:8: (Length of Sequence = 345 Nucleotides)

CTACAATAGA AGGCAAACTA TGTCCCTCCT TTGCTCAGAA ACTTTTAATA TCTKCCTATT TCCCCATGTA AAAGCCAATC
 CTCACCACA GGTAGAGAGG GCTATCCATT TCTAGCTACA CATCTCCTCA GTCACTGCCC CCAGCCCCAG TACTTGGGGA
 CTTTGCCCTT CGAGTCCCT GTGCCAGCAA ACTCTTCTC CAGATGTCCA CATGACTCAC CCNCTCCTT CAGGGGTCTT
 CTCAAATGTC ACTTTACCAG AGGTGGCTTC CCTGACCATC CTGTATAAAT AGCATCACCC TACCTCCTAT CTCTCTCTCT
 AATGTCTCAG GAATTCGATA TCAAG

SEQ ID NO:9: (Length of Sequence = 189 Nucleotides)

GTGAACAGAC TAAGGCCTTT NTGGAGGCC AGAATAAGAT TACTGTGCCA TTTCTTGAGC AGTGTCCCAT CAGAGGTTTA
 TACAAGAGA GAATGACTGA ACTATATGAT TATCCANGT ATAGTTGCCA CTTCAAGAAA GGAGAACGGT GTTTTATTTT
 TTACAATACA GGNITTNAGA ACCACGGG

SEQ ID NO:10: (Length of Sequence = 267 Nucleotides)

CTCCCTTCGC CACCTGCTGG ACGCGAGGG CTAATACGAT GCCATGGGTG TCCTGRTTTT TTATTTCTCA GACAGGACTG
 CTCGTATNT GTCTTTGGAT TCTACGTAGA TTTATATTTG TAAATATTA CATTGTGCAT GACCAGAAGA AATGTCATTA
 TCGTAAATTT TAGATTTCTG NGTCTATATA TGNAAGNAAT ACTAACTACT AACTGTTATA ACAWCAAAAT GTGGGNTGTA
 TATCTACARG CCNAGCCGA CTGTICA

SEQ ID NO:11: (Length of Sequence = 247 Nucleotides)

CTCATAAGC CAGGGTGATA AAATGGTAG TTTCAATGTA TCTACAAGRC TAAGKTCAA ATTCCATGCA TGTGCTGRTA
 AAAGACCCAT NATGGKCTIM ACTGTACTTA CTCCCATTT ATTAGCATTC ATTCTGGTCA CCAGCTCTAG TTCCTCTGCT
 TAGCGAATCT CGCTGTCTT CAAGATGTCA TTCAAATGTC ACATTTTGIG GGAAGCCTTG CCTTTTTTGA CACGGTCTCC
 CTGCCAC

SEQ ID NO:12: (Length of Sequence = 280 Nucleotides)

AAGGCGAGAG GCTTCTGGAG AAACCCACCC CACCAACGTC TTGATCTTGG ACTTTTAVCC TCCAGAGCTA TGAGAAAACA
 AVTTCTGIV VATVGVGGCC ACTCAGCCTG TGGATACGCG CAGCCTAGC AAACATAC ACACATACAT TTTAACTOG
 GTTAATCT GTGRCATTC ACTTATGGIT CAGTTTTTAA ATAGTCTAG TCTTATGVCC ACTGTAAAG TTCACCAGGA
 CATAGGSCAT TGGGAAAGG GGCTGTAACT TCTTGGATTA

SEQ ID NO:13: (Length of Sequence = 339 Nucleotides)

VCTVICTVCC AACTTCATTC AGATATTGAC TCTGGTGATG GGAACATTAA ATACATCTC TCAGGGGAAG GAGCTGGAAC
 CATTTTTVTR ATTGATGACA AATCAGGGAA CATTATGCC ACCAAGACGT TGGATCGAGA AGAGAGAGCC CAGTACAGT
 TGATGGCTCA GCGGTGGAC AGGGACACCA ATCGGCCACT GGAGCCACCG TCGGAATTCA TTKTCAAGGK CCAGGACATT
 AATGACAGTC CTCGGAGGT TTCTGCAG AGACCTATCA TGCCAACGTG GCCSTGTARA GGTCCAATKT TGGGTGSTGT
 ACGGTAGTGG GGAGGCCTG

SEQ ID NO:14: (Length of Sequence = 342 Nucleotides)

114

GGGVCAGAAAG TAGCAGATTG TAGTAAAGGA CCAGATGAGG CAAAAATTAA GGCACTCTTG GAAAGAACAG GCTACACACT
 TGATGTGACC ACTGGACAGA GGAAGTATGG AGGACCACCT CCAGATTCCG TTTATYCAGG TCAGCAGCCT TCTGTTGGCA
 CTGAGATATT TGTTGGAAAG ATCCCAAGAG ATCTATTTTG AGGATGAAGT TGTTCATTA TTTGAGAAAG CTTGGACCTA
 TATGGGATCC TTCGTCTAAT GATGGATCCA CTCCTGGTC TCAATAGAGG TTAATGCGTT TGTCACTTTT TTGTACAAA
 GGAGCARGCT CAAGGAGGGC TG

SEQ ID NO:15: (Length of Sequence = 354 Nucleotides)

ATGTTGATGC TGAAATTVAA GATCCACCAA TTCCAGAAAA ACCATGGAAG GTTCATGTGA AATGGATTTT GGCACTGAT
 ATTTTCAATG AATGGATGAA TGAGGAGGAT TATRAGGTGG ATGAAAATAG GAAGCCTGTR AGTTTTCGTC AGCGGATTTT
 AACCAAGAAT GAAGAGCCAG TCAGAAGTCC AGAAAGAAGA GATAGAAAAG CATCASCCTAA TGCTCGAAAG AGGAAACATT
 CGCCTTCGCC TCCCCCTCCG ACACCAACAG AWTACCGGA AGAAGAGTGG GAAGAAAGGC CAAGCTAGCC TTTTATGGGG
 AAGCCGCAAG AAGTCCAGAA AGAGGGWGG TTGA

SEQ ID NO:16: (Length of Sequence = 348 Nucleotides)

CAGGCAAGTT TCTTCCAGGA TGAGAAATCA GTGGAAAGTG AGGGCCAGCC AACAGCCACC ACCAACCACC CAACACGGA
 GCGAGACCAT CTTAAAGAG CCCAGCCAA GCTGACCATG GGTCTGACCC CAAACTGAAG AAATGCCAG CCCAGCCAA
 CCCAAATTGC TAACTGTAT TATAAGCAAG TACAATGGTC CTTACCTTAA GCCACTAAGT TTTGGGATGC TTTGTTACAC
 AGCTATAGAT AAGCTGATAC AGGGAATGTC AGAWTCCATG ATGAGAGACC GAGCCTTCA KTCTGTCAGA GGYACCTTVG
 GTTGGCAAAA CTCAAAAAG AGGGACCT

SEQ ID NO:17: (Length of Sequence = 415 Nucleotides)

AGCAYGGCT GGGGGGCGG GAGTAGGGC TGGGGCTTGT TTTACGCTCT GCGCCACACA CCCCCTCCTC TTCCGTCTG
 ATTAAGCCCA AGGGTTGGTG GACTTAACIT TCAGCCCATC TCTAAGGGT TCACAGACTG GATCTTTCTA AACITTTATG
 GGTACCTGCT TCCCCTTTC CCTGGTAGTT TTCATCTACA AAAAGTCAAA ACCTGATCGA AATAGAAATA AGATCATCAA
 ATTGGACCAT TCTCTTAGCG TTCGAGTGTG CCGGCCAGAC TGGCATTGAG TACACGCTGA GATCCAAJCA CATCACTG
 GCCTCAGGTC ACCAATCGC CACTCAGGGC ACAAGGCTG CCCTTGTGGT CACAAGGCTT TCCITTAATGT CGTCGGTGCC
 CAGGTGAACC ACAAG

SEQ ID NO:18: (Length of Sequence = 356 Nucleotides)

GTATGTATGT CTGTAGGTAT TTCTATACTT AACCATCTGT GTCCCAATTA AGCTAAACAT GATTCAATTCT GATGCCAACC
 CCCATCCATC ATGCCATGGA TCGCTCTAGA CTCTTCCCT TGTAACCTCC CACTCAAACA GTGAGAAACC TTTGCCAGT
 ATGTTTGGGA GTAACCTCAC TGGGAGTTTG CAGTCCCACT AGATGAATGC CAACCATTT GTTCATTTAA AAGGACTTTT
 GGAACCATAG AGCAATGGCT GGGCTGGGTC TVGCAGGTC ATCTTGAAGT AAACAATTGG CCATGAAGGC ACTTGCCAAG
 GAAACTCTAG GGGCCACAAG GGTCTGGGT GCTTGC

SEQ ID NO:19: (Length of Sequence = 339 Nucleotides)

CATGCTTCCA TTTTTTTTAG TTTTAAACCA CCAACCAAT ATTTTTCCTT TAAATTTTAA TCTTATAATA TAGAAATCTT
 ATGTAAATGA AATTTTGTCA TGTTCAAAT AAAGAGAACT GAAGTAGAAA ATAGAAATGC CAGTAAACAA CATAATGTTT
 AATTTACAAC TTACATTAGG GGTITGGGG VATGCTAATT ATATATTGAG AATATACATT AGAACTCTTC AAAATGGGCT
 CTTCTAATGA GGTCACTACT GAACATAATT GTTCCCTCTT CTGTAAATA GAATAGGTTT AAATGACTAG TCCAAATGGA
 ATTATTGCCT TCTKGTAA

115

SEQ ID NO:20: (Length of Sequence = 437 Nucleotides)

AGAACAAGGG AACTCAGCAG CCCCTCCCTT CCCATCAGCT GTTCCTGAGA GATGCAATAT AGTAGTCATC GACATCATCC
 TTATCAACAG CATCATCACT CAGACAGTGG TGAAAGTCTT TCTTCACAAG GAAAAACAAA GATAAAGAAA TACATGAGCA
 TTAATCAGAA ATTTTCAAAG CTGGGATCTT AATGATATGC ATTATCATTG GACATTCAAA TGCTATACAT CTTCTGATGA
 AGCCTCCTTG ACAGCAGCTA CACTTATTTT ACATTAGAAT GCCTAGAGAA ATCCTGACTG CCCAGCTTGG TCATGGGACC
 TTCCCCACTC TCCTCTTGGA GGAATGAAAA GATGTGGGGG CTTTCTACTT TTGCTACTGA GCTGGGGTAT ATGGCTAGGT
 CCACTTTCTA AGGGGCTTGG AAGGGTTATT CCATCTG

SEQ ID NO:21: (Length of Sequence = 385 Nucleotides)

GTTTGATTGG CTTTTTTTTT AGAGTTTTC ACAGTGTTC TTCAGGAATA TTGGTCTTTC ATTTTCTTTT CTGGAATAT
 TTCTAGTTC TACTTTGTCA GAGTAAATTC TGGCTTCACA GAATTATTGG TAGTCTCTCC TGTCTTGGTT TATTCATGCT
 GCTATAACAA AATACCACAG ACAAGGTGGT AATAAATAAC ACAAATTTAT TTTTCCAGT TCTGGAGGCT AGGAGTTCAA
 GAAGCTGGCA AGTTCAATGT CTGGTGAGAC CCATTCCTTC ATAGGTGGCA CCATCTAGGG GTCCCTTACAT GRCAAAGAGA
 TGGAAGGGCC AAAAAGATGG TGACCTATTG TGAGGCTTTT TTTAAAGGGC CTTVAAATCC CAGTC

SEQ ID NO:22: (Length of Sequence = 374 Nucleotides)

ACCTTCATGG TCATGAAGGC CATGCAGTCT CTCAAGTCCC GAGGCTACGT GAAGGAACAG TTTGCCTGGA GACATTTCTA
 CTGGTACCTT ACCAATGAGG GTATCCAGTA TCTCGTGAT TACCTTCATC TGCCCCCGGA GATTGTGCCT GCCACCTAC
 GCGGTAGCCG TCCAGAGACT GGCAGGCTTC GGCCTAAAGG TCTGGGAGGG TGAGCGACCT GCGAGACTCA CAAGAGGGGA
 AGCTGACAAG AGATACCTAC AAGACGGGAG TRCCTGTGCC ACCTGGTGCC GACAAGAAAG CCGAGGCTTG GGTCTGGGTC
 AGCAACCGAA TTCCAGTTTA GAGGCGGATT TVGGTGTGK ACGGTGTCAG CCAC

SEQ ID NO:23: (Length of Sequence = 322 Nucleotides)

CAAAACGTGA TCACCACAGC TCGTTCCCTG CAGTGACACT TAACATACTC AGCATCTTCA TGAATCTGA ATAATTTACT
 GATCGTAAAG TCTAAAAGTA TCAATTTTCA GTGAGCAGTT TTAATCAGA AAATAGTCAA TAGTTAATCA TGACTCTTCA
 GGGTATTTCC TTACGTCCT CTGAAGAGTT TCCAGAACA TTCTGTGAA AAGGAATGCC TCCCAACAAT GGAGAGCAAC
 AATAGCAACA GGCATCTGAA TCAGCCTGGC CTCTGAAAC AGACCANAGA GGAGTTTATC TGTTCCTTCC AGTGGAGGAA
 GG

SEQ ID NO:24: (Length of Sequence = 113 Nucleotides)

CCTGAAATCG GAGTCTTTTG GACTGACTCC AAATTCAATG GGTGGCAGAG GCAGCACGGA GTCCAGTGA ATCTCCACCC
 CGTTAACAGG CGGGACGACA GCCCCTTGCA GCC

SEQ ID NO:25: (Length of Sequence = 399 Nucleotides)

GGAAAGAATG AAGGAAAAAC AAGACAAAT CTAATTTCATG GCTGGGTCCA GCAGAAAAGA GCAGACGCTG GCCTCAGACA
 CAGACAGCAG TCTTGATGCC TCGACGGGAC CCCTTGAAGG CTGTGATGA TAGGTTAGAA ATAGCAAACC TGTCAGCATT
 GAAGGAACCT TCACCTCCGT GGGCCTGAAA TGCTGGGAG TTGATGGAAC CAAATAGAAA AACTCCATGT TCTGCATGTA
 AGAAACACAA TGCCTTGCC TACTCAGACC TGATAGGATT GCCTGCTTAG ATGATAAAAT GAGGCAGAAAT ATGTCTTGAA
 GAAAAAANTT GCAAGCCACA CTTCTNGAGA TTTTGTTCAA GATCCATTTT AGGGTGAGCA GTTAGAGTAG GTTGAATTT

SEQ ID NO:26: (Length of Sequence = 355 Nucleotides)

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GATTGGTATA CGGGCAACAA TGGATTGATA GCCTTAATAT AGAAATAGTT CCAGCAGGCC AGATGCAGTG GCTCAATTCT
 GTAAACCCAG TGCTCTGCAC AGCTAGGAAG GAAGATCACT TGGGCCCAGG AGTTCAAGGC TCCAGTGAGC CATGATCAGC
 CCACTKCTC CAGCCTGGGT GACAGAGTNA GGCCCTGTCT CTAAAAAATG AAATAGCTCC ATCAAGTCAA TAATTAAAAG
 TTCAACAGCC CAACAGANCA AAAATTGTAA ATGANCACAA ATTAGAAAAT GTACAAATTA AATATTAATG ACCCATAACC
 CTATAAGGGA AAGTTTAACC TCTCTAGTAT TTTTT

SEQ ID NO:27: (Length of Sequence = 322 Nucleotides)

AAAACGTGAT CACCACAGCT CCGTTCCTGC AGTGACACTT AACATACTCA GCATCTTCAT GAATTCGTAA TAATTTACTG
 ATCGTAAAGT CTAAAGTAT CAATTTCAAG TGAGCAGTTT TAAATCAGAA AATAGTCAAT AGTTAATCAT GACTCTTCAG
 GGTATTTCTT TCACGTCTC TGAAGAGTTT CCCAGAACAT TCTGTGTAAA AGGAATGCCT CCCAACAATG GAGGAGCAAC
 AATAGCAACA GGCATCTGAA TCAGCCTGGG CTCTGAAAAC AGACCAAGA GNGTMTTTC TGCTTTCTTC CAGTGAGGAA
 GG

SEQ ID NO:28: (Length of Sequence = 287 Nucleotides)

TATTTTTATT AAAGACCAC CCGTGGCTGIM GTGAGATGAA TGGATTCAAA CAGGGCAAGA GTGGATACAG MGAGATAAGT
 TAGGAAGCTG GTATAGAAAT CTGGATGAGA TATGGTGGCT TGGATGATAC TAGCAGTGAG TATGGGAAGT AGGTGGATTA
 CTTTACACTT TTTTAGATCA GTCKATTCTT GATGCTTGA AGACAAATTA ATCTCATATA TAACTCTAAA CAACATATTT
 ATATTTTCATG TAAATAAGGA TAATGCTGAC CAAATATTAG CACCTTT

SEQ ID NO:29: (Length of Sequence = 282 Nucleotides)

CAGGCAGGG AAGCCTGGAA GCAAAGGAGG ACCTGGCTCC TGACTCTCAG AGAGGATAGG CTGGGATCCC TGGGGCAGGC
 CTGTCTCTG GCTGGCCAAAT TTAGTCTTTC AATTGCTTAA GGCTCTCCA TTGCCCTGCC TTGCCCTCTT CTAGCCTGTT
 ATTTCTAGGC TCCTCTGAAT AAATCTCAGG TTCTCTACTG TCATGCCCTT AGTTCAAAAA TGAGAATCTG CCTACAGTG
 CTGGCCTCCT TCCGGCCTGA AAGCCAGCAC CTTKOGACCC GG

SEQ ID NO:30: (Length of Sequence = 345 Nucleotides)

GAAGCTGGTG AATACATTTC AAGACACAAC ATGGCACCTG TGCTAGCTC TATGGTACAA CATGGTACTA TGACACATAT
 AATGGGTTC CAGATGGGGA AGGCAGCTTC TCTGCAACTG AGCTGAGATC TCAAAATAGA CAATGTCAAG ATGGAATGAG
 AAGGGAAAA CAGCATGTGT AGACAGGTAG TGACAAAAGG CTAATTAAGG ACTGAAAGAA ACCAGTGGCC AACAAGGGAA
 TCTACGGGTG ATAAAGATAA GACGGTGAGA GAGATAAGGC TAGATTGTAT AAGGCTTGAC AGACCATAGC AAGATAAGCA
 AGGACCTGTG TCCTGTTAAC CATTT

SEQ ID NO:31: (Length of Sequence = 343 Nucleotides)

ATAAAATTGG TCTGGGTACC CTAAGGTGTT TGCKTGTATA GAAAATTGAC ACCCCAACT AAGTGTCTA CTTAGCTTCT
 ACAATAGTTA TTCTAGACC TTAGATTAGT CATTACATTT TTATTTAAGG TACTATGTTA CTTTCATGAC TACAAAATGA
 GGCACCTGTA CAAAACAGGA ATGAAAACAT ACATATACTG TCTGTCTTT ATGTGCTATT AATGCCAAG ATATTGTCAG
 GGATATTTTT AAAGAAGCCC TTACTCATGA TGGCTATTTT TAAAAATGGC ACAGGACAGT AACAGGCTGA AAAGAAACAC
 CTGGTTTGAG GGGCCAAAT AAG

SEQ ID NO:32: (Length of Sequence = 153 Nucleotides)

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ACAGGATGGT CAGGACAAGC CACCTCTGGT AAAGTGACAT TTGAGANGAC CCCTGAAGGN GGGGGGTTGA GTCATGTGGA
CATCTTGAGG AAGAGTTTAC TGGCACAGG AACTGCAAGG KCAAAGTCCC CAAGTACTAG GGCTGGGGGC AGT

SEQ ID NO:33: (Length of Sequence = 257 Nucleotides)

TCAGTCAGCT TATCGCAGGT GCAGCCAAAC ACAAAGCTTC AGGACAAATT GTACAAACTT TACAATGTGG GATTTAAATT
TAAATATGA TACATAAAAA TCTACACAAA ACTGATAAAA ATCAAGCACA GNTACCAGGA TTGAACTTA TAATAATCCA
TGTTGAAAG GGAGTCTGT TTCTTTTCAA GTGCTTTTAT TCTGCTATGG AACAGTCAA ATGGAAGNTG TAAAGCTTTG
TGGTTAGITT AAATTAT

SEQ ID NO:34: (Length of Sequence = 307 Nucleotides)

CTCCACCCA TATCTAATCC AACAGTCCA GCTGCCTCTC TCINAAMAAT ACCNARGATC AGGCCCCCTC TCAGCACCCC
CACAGCTGCT GCCCAAAGG AAGCCACGTC ATCTCTCAG GAGATTGTTC AGCAGCCACT GCCTCCTTGT CACCTTGCC
TGTTGTCATT CTCCACAT GGGCAGGAA TGCGTCTGT TAAAGTCTGC TAGGTCACGG TCCTTCCTAC TCAAAATGCT
CCCTTGCTC CCACTGCCCC CAGAGTAAAA AGCCAGACC TTCAAATGAC ACAAAGGCCT ACAACGA

SEQ ID NO:35: (Length of Sequence = 266 Nucleotides)

TCCACAGGC ATCAGATGCC TGCTNGATAA TATATAACA GTAAAAACA CTTTCAC TTCCTATNT AATCGTGTGC
CATGGATCTG ATCTGTACCA TGACCTACA TAAGGCTGGA TGGACCTCAG GCTGAGGGCC CAATGTATGT KITGGCTGTG
GTGTTGGTTG GAGTGTGTCT GCKGAGTAG AACACGNITT TCAAGATTCT AAGCTCAAT TMAAGTGCA CATTAAATAT
AAACTCAGAT CTGNTCAAAA GTCGG

SEQ ID NO:36: (Length of Sequence = 388 Nucleotides)

CAGCTTTGGA AAGACTTTGA CCTCTGAACA AAAAGCCAGA AGGCTGCTTA AAGAAATAGT AAGGGTTTCA CTGCCCCTGG
ATAGTCACAA ATCTAGGAGT ACTGGTTTAC TGCTTGGGT TACCAGGTAT CAGCTCTTC ACAATCTCTC CTCTTCCAT
GCTTCCCCTT AAAGTCCAGT TGACAAATGA AAAAGAAAAA AAGGCTTGA TTTATAGTAT TGCCAAACAA CCTCATAAGA
ATGGGTAAAA TTACATACAC ACATACATAG AGAAGGGAGG TAATGCTGTG AATCTACTTG AGCTGGATTG CATGCTCCCT
AGGGACCAG GTGCCCAACC TGTAAATTTA TTCTAACTT TTATAAATAT ACTCCTTTT CACGGATG

SEQ ID NO:37: (Length of Sequence = 342 Nucleotides)

GAATGTCTAC ACAAGGAAGT ACAGGATTIG GCTTTTCTAG ATGTATATC CAACTTCGC AGTCATGAGA ACAAAGTGT
TGCCAGCAG GCCTCTCTCA CAGAGCAGAG ACTTACTGTG GAAAGCTGAG AACTGCCCGA TACAGGCAT CATCCCATCT
CTAATTTCCC CTCTGTCTC CATCCAGCG CTCTTCCGC TTCAITCTCT ACCATACCAC TTGTGCATGC ATGTATATGT
CTAATACCA TTGAAGAACC GCTGTAGTA CTCCCTAAT AAGGATTCT AAACCTATAG TTAGTGTGAT CATGACTTTG
GTCAAAGCA AGTYTCCAC CC

SEQ ID NO:38: (Length of Sequence = 355 Nucleotides)

GATGACTTGG AGAATGCCGA AGAGGAAGC CAGGAGAATG TCGAGATCCT CCCCTCTGGG GAGCGACGC AGCCAACCAG
AAGCGAATCA CCACACCATA CATGACCAAG TACGAGCGAG CCCGCTGTCT GGGCACCCGA GCGCTCCAGA TTGCGATGTG
TGCCCTGTG ATGGTGGAGC TGGAGGGGGA GACAGATCCT CTGCTCATTG CCATGAAGGA ACTCAAGGCC CGAAAGATCC
CCATCATCAT TGCCGTTAC CTGCCAGATG GGAGCTATGA AGACTGGGG GGTGACGAG CTCATCATCA CGACTTGAG
CTGGAGTCAT CTTTCTGMC CTTTCCCCA TGCCC

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SEQ ID NO:39: (Length of Sequence = 303 Nucleotides)

GCCAAAAACA NYTCTGAACC CGTTTTGGGA AATAATGGGA TTCTTGATC ACGGGACAAC GAATCACCOCT GAAGTTTTTC
TCCAGTTTAC TCAGTCACAT AAGCCACCAG AGGCTAACCA CACTGACAAC AAAAGCAAGT CCCAGGATTC CGGGGGCTAA
TACCATGCTA GGCATTACTT GGGAAGTIAT GAGTTGGTAT ACATCTGTGA ATTGGTGGG AGGAGAAAAC TAACAGTAAA
TTTATCAAAG CCACTGGTAC GTTCAGCGTT ATAAAAATTA CAAGGATCTG CTCTCGGCG ACT

SEQ ID NO:40: (Length of Sequence = 178 Nucleotides)

GGTGTGGGG GCTAGAGATA CACATGCCAG TNCIATACAT TTCTCAGCAC TGTGCTGTG ATTACAGCA GTTCAATTGT
TCATGCGATA TAAGCCAGTC ATGTGGCCCA AGTTATTCTG TCGGCTGTGT TCTCTGCAGG AATCTGATGC AAGAAGGCCT
GAAGGATGCA TGGCTTTT

SEQ ID NO:41: (Length of Sequence = 322 Nucleotides)

TGCCTTTCTT TAGAAATTTA GGGCAGTGTG ATGCTTCCAG AGGCTGTGAC AAACACCAGC TTTCATTGTG CTGGGGAGTT
TCCATGCCCTC TYCCTTCTCT TCGCTTAGTG CACGTTCTG CTTTTATCA GTTGTACTGC CTGAGACTGA KTCCAACAAC
CCAAACTGAA CGCTCAGCTC CTCTTTTCA AAGGAGGATG ACTTNTCTNA ACAACTATTT AGGTGAATTA TTKCKACAGT
TTATTAAAGC AATGGCTCTA AACAAATTC ACTGGGGGTG ACAAAGTACA ATACAAAAGG CGTACTCTGA GGGCTTGGG
GT

SEQ ID NO:42: (Length of Sequence = 278 Nucleotides)

AAACTTTGGC ATTTTATTCT AGACACGTAT AAAACAACAA CAAAAACTT CAGTGATACA ACAGACGTTT TCCCTTAGTT
CCCCATCCAA GGGGACAGAG GTGTGCAGCT GAAGCTGGAY CTTTTTCTG TCCTACCTGG AAGCTGTCTC ACTGCTGGAT
GAGAAATGGCT TCTAAAAGTG GATCTTGGG ATCCTTGTGA ATTTGCCCTC GGATAAGGAG TGAAGWTCAT TTACGGCACA
TGTGGATTAT GGTITACACA AAGATGTCCA GTTATTTT

SEQ ID NO:43: (Length of Sequence = 225 Nucleotides)

AGATCAAAAG ATGAGAGAAG CTGAAACAGA ACCGCATGAG GGAAAGAGGA AAGTGAATC TCTGTGGCCC ATCTTCAGGA
TCCACCACCA GAAAACCGT TACATCTTCG CCTCTTTTAC AAGCGGAAAG CCAGCAGCAG GATCTCTAGG AATATTAGTA
TTAAAGAAGG CTATGCAGCA TAAACCTGAT TTCAAATGG TAAAGCAAG GTTATGTGTA CTGT

SEQ ID NO:45: (Length of Sequence = 305 Nucleotides)

GGATTGCCAG GAGCTGTTCC AGGTGGGGA GAGGCAGAGT GGACTATTTG AAATCCAGCC TCAGGGGTCT CCGCCATTTT
TGGTGAAGTG CAAGATGACC TCAGATGGAG GCTGGACAGT AATTCAGAGG CGCCACGATG GCTCAGTGA CTTCAACCGG
CCCTKGGTAG CCTACAAGGC GGTGGTTTIG GGGGATCCCC ACGGCGAGTT CTGGCTTGGG TCTTGGAGAA AGGKGCATAG
CATCACGGGG GGACCGGAAC AGCCGMCITG CGGTGCAAMC TCGGGGACT GGGATGGGCA AACGC

SEQ ID NO:46: (Length of Sequence = 264 Nucleotides)

ATGAAATAGC ATATCTNNGC CTAATTAAAA GATTCCATTA CATTTACTTT TATCATTAT ACTGCCAAGG ATCAGTCACA
AAAAATTCAA ATTATACATA TTATTCATGC TTAAATTICA TAAATAAGTA AATTAAAGCA AGCCAATATG TCTCTCTTCA
TAACATAGGG AAAAATTACT GTTAGCATA ACAGNGTAAT AGGCAAAGTC TAGCCATACA GCAGCAGTTC ACGGTGTGTG
CAAGTTGGKA CAGGTTCAT CGAT

SEQ ID NO:47: (Length of Sequence = 175 Nucleotides)

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GATCTCTTCC AGGTCATATG TACTGGGACA GCAAACACTC ACATTGAAG TTCTTCTGGS CCACCGGCTT CCCAGTACAT
 TGACGCTGGA AGAGATCATC TCAAATGGTT CTCCAGTGTG AGGCTGGAGA TCTCCAGAAA TGGAGTCTAC TCCTGGGGTG
 GCTTGTATGG GAGCC

SEQ ID NO:48: (Length of Sequence = 270 Nucleotides)

GTCTGTGAGA GGNACCGGGC AGCTCAMRCC CACAGGGCT CCTCATCTC TGTGGTGGCA TCCTCATTC ACTCTCATCT
 GCCACCTKCT CAGGCGGGCC TCTAGCTTTC TCATGTACTC TAGCAATTCC TGTTCCTCT GCTGTAACTG CTCCTTTTCC
 TTCTGGAGCA CAGCGAGGGC TGACCGCAGC TGTGTACGCT TCCGCTTACT TTTTGACAAC TGTACCAGGC TAGAATCCTT
 TCTGCCTGGG TCAGCTTCAG TCTTTGAACA

SEQ ID NO:49: (Length of Sequence = 359 Nucleotides)

CCCTGAAGAG TGGGTGGGAC AACCAGATGG GTGTAACCC TTGTGGGGGA AAAGGAGTGA GTTACTTGG TAAATAATA
 ATGGTAATGT CAGCAGCGTG GCTGGGGGAC TCAGTATGGT CCGGGGAAA GAGTTGGGGC AGTGAACCTC CCAGGCCGAC
 TGGCCTTGGG CTGGCAGCAG GGAGGCTGCA GGGCGCTAC CTMCTCTGCC ACGTCCCTGC CTAGGAAACC TATCCCAGGA
 CACCCCTGCTT TGGCCTGGAT AGCAGCCTAG GGATGAGCAT TTCTTTGAAA GCAATTAGGT TATTCACCTG GTATTAAAA
 TATTTACTGT TAAAAAATCT GTGACTTCAT GGARGTGGG

SEQ ID NO:50: (Length of Sequence = 271 Nucleotides)

CCAGGAAGGA CAGGAAGTGT CCTCTAATAC GCATAAGATC CAGTACAGGA GAGATGGGAA GAGAGKCTCC AGGATGAAGG
 GGAAARAGG CCGCATGCCA GTCACCTGGC ATCTNCCAGA GAGGGYAGY CTNCCACTG AGACTGGGGC ACGAGTCCCG
 TCATCACCAT GCCCTCTGAC TGTGAACTG TCTTTTACC TGACAAATAC TACACAGGTA TCGMTGTGG CCATACTCTG
 CTATCTAAAC CCAGGAACCTG ATTAGATTGT T

SEQ ID NO:51: (Length of Sequence = 226 Nucleotides)

CTCCAAGCAG TAAAGACTTG CAAAGCATTG CATTTTGATT AAACCTTGCT GGGCTGAAGG GCAGGCAGAG CTGTGGTGGG
 CACTGGCAGG ACGCAGCACC CCCCAGCTGG CCCTTGGCAG GCTGCACCGG GCGCATGCGG GTGTGGGCCA GGGTGTCTTT
 AGGAAGCAGG TGGGAGTCTK NCACGTGCAG KCGGTCCAGG AGKGYACCAK GCCTGGCAGG GCACTG

SEQ ID NO:52: (Length of Sequence = 408 Nucleotides)

GGTGGGGCAA GGTGGGGGTG AAGTGCATC CTGCTGCATG AGTGGCAGGG CAGGGTGCAC ACACACACGT GGGTMTGGC
 TGGGTGAGGC AAGCAAAACC TGCTGCACA TGGCAAAGGG ATGTGGGAAG TATCCATGGG CNCCAGGGGA AGCTGCAGTT
 TGGGGAGGGA ATGGGTGGCA CTGCTGCGTG TCTGTGGGGG CCACCCCACT GGGGGTCTCC AAGTGGTCAA GTTCCGTCTG
 CCAGGTIAGA AGCTATGATG GGGGCTTCTA GGACACTINGA GGCTGACCTG AAAGCAAGGT ACTTTTCACA CTGGGACCCCT
 GCAAGAGGCC AACAAGATTA AGGGATGCTT CAGGTACAGC TTGGCCCTCT TCTTATGGGG CAAGACCTTC CCGCAGAGT
 TCAGATCT

SEQ ID NO:53: (Length of Sequence = 314 Nucleotides)

TTCTGTGCAG GAGGACCACA TGGCAGTCCA GCAGACTGCA CATTTTAA AACTAGGTCT TCCAGGTAG TTTGAGGAGC
 ACCAGGGCAC ACTCAGGGAA GGGACATGTC AGTGTCTGAG AGCTCACGGG AGGAAGGTGT AGTGACAACA TGGACCATGG
 TGGAGTGACT TTAGACGGCT CTTGGGTNAG GAGAATCATC ATGTAACAAA GCATTAAATC ATTTGGAGAA ATTCAAGAAA
 NTCGTAGATG TACATTCTAG CCCACTTACC AGGCTACTA AACGTCAATC AGATATATTT CAATTGAAT TCGG

SEQ ID NO:54: (Length of Sequence = 310 Nucleotides)

AAGCCACCGC ACCTGGCCCA TTACATTAT AATGTTATAA GGGGGTTGAG GGGTCGTCCA CTGGAGCAGT GGTTCCTCAA
CTCGTGTATG CATAGGAATT ACCTGAAGGG CTTGTTAAAA CACAACTGC AGGGCCACC CCCAGAGTTT CTGGTTGGG
AGGTGTGGGC TGGGCTTGAG GATGTGAATC TCTACAAGC TCCCAGGTGA GGCTGCTGGT CTGTGGACCC ACTTCAAAGA
CCCAGTGAAT CAGAAGAGTC AGTGAGACTG GACAAATGAA CGCAAGACAG TCTTCAAAGG AGACCAGAGG

SEQ ID NO:55: (Length of Sequence = 252 Nucleotides)

TTTTTTTTT TYCCGGGGAR GTCAAACATA CTTTTTCAAC ATAGGATKTC TGACAGGAGG CCCTTGGMCA GGGTTCCCTG
ACCTCTGYTT CAAACCCAC TGGAAACAGA GCAAAGTCAT CAMGAAAACC CAGGACACCA GGGCAGGGGG GCTGCACAAG
GTGGGGTAGG TCACAGTGGG CCAGCACACA GTGGCCCCGC CCAGGTCCAG CCCAGCCTGG GGGAGGGTGT GAGGGTTCCA
KGCAAGCTCA TT

SEQ ID NO:56: (Length of Sequence = 188 Nucleotides)

GTCAAGTCTA CCATCAATTCT AGAAGGAAAA GGCATGGTGG GAATTCAGCA CCTGAAGTGT TATTTACACC AGCCTCGGCA
TCTGGCAAGG RAATAGCGAT TGTTCATAGT GATGCAGAGA GAGAACAGGA GGAKGAAGAA CAAATACACA CAAACAACTG
ATCTAGGGAG ACTCCAARGA TCCAACAG

SEQ ID NO:57: (Length of Sequence = 304 Nucleotides)

AATCAGCCTG CAAGCAAAAG ATAGGAATAT TCACCTACAG TGGGCACCTC CTTGAAGAAG CTGATAGCTT TTACACAGTA
TTAGATTGAA ATAATGGACA GAAACACATT CTTGTCAAGA AAGGGGGAGA GAAGTCTGTT TGCAAGTTTC AAAGCAAAAA
GCAAAAGTGA AATGATTGA GGATTTCGT TCTAATTGGA GATGATTCTC TGGTGTGTAG AAATGGCAAA TATTGATGAT
TGTTGTCTAT TGATTGGTGC AGGATACTTG GTATACGAGT AAATACTTGA GACTCGTGT ACTT

SEQ ID NO:58: (Length of Sequence = 261 Nucleotides)

CCAGAAGCTT CTGCTCTCTC CTGTGCTCTC AGTGGTCCC TTCCCTGAAG TGCTCCCTT CTCATTAAAT ATAGCCTGTG
TCTGAACATT GTGAGCTATA AGAACCTCA TATTAATGGT TAAGGACTG TTGGAATGA TGTGATTTTA TTAATAATGG
GGTCTTTGTG GAGGAGTCAG GAATGGTCAA AATGAGCTTC AGGTATGGGG CTTGCTCTRT GCTCTGATA CCAAGGTCCT
GGCAAGCACA AAGGAAGGTG G

SEQ ID NO:59: (Length of Sequence = 470 Nucleotides)

AATACGTATT CTGAAGCCAC TATATCTGCA TATGTATCCC AGATTGAAC AATTAAGTAA AAAGATGGTG AATGATGAAA
GCCAGTTTTT TGTCTGTAGA AGTGAGAGGT GACAGATAAC CAAAGGAAGA AGGCTAGAAT GGATAGAGGA CAGTGCTTAA
GTGTAGTTCC TGTGCTTTT AGTCTTATAG ACTTCATTTT CAAAGTTTCT TAGCACCCCC CTTCCTCTT TGGTGAAGTT
GTTTACATA TTTTCTAGAC AATTAGATT TTTTGTCAAA GTCTGTGTTT CATCCGGAGA GCCTCTGATC TCTTAAATGA
TTTTTTAAAT TTACATACAT TAAGGTTTAC TCTGCTGTAA AGGTCTGTGG GTTTTAAATCC TGTCTCAGAG TTTTGCATA
TGTTGGCTT CTGCTGGGA ATACTCTCCC AGATATCCC CATGACTGGC CCCTTATCTT CAATCAGATC

SEQ ID NO:60: (Length of Sequence = 466 Nucleotides)

GTGTTTCAAG GGAAGGCAAC TMCAAGTTTG TGCAGCTGAA TTTCTGTAAA GTTAAGACAG ACTCAMCTTC TCATTCAATC
TGGGGCAGTG GATAACCTTT CTGAATAGAC CCAGTTGTTT ACGGACAGGG ATAGAGGTTT GCCTTTCTTC TTTCTTGA
TTTGGAGTGA GCACTAGGGA GGGGAAGTGC ATGGGTGACA TGAAGAAGGT GAAGATGTAG TAAAAGCATC ATCCAGGTAC
ACATTAAACG TGCTGCAGAA TTTTACAAT ACAACTGAGG GAGTCTGTAG TGGCAAAGC AATTACTGAG CACAAAAGCC

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AGTCTCAAG GGCTGATTCC ACCCTCCCTG TCCAGGGACT TTCTCAGCAA ACTTTGTTC TGAGCAGTTG TCGCTTTGA
TGGTCTTAGC CAGTTTTTGG TGCAGGGGTG TTCTCTGGT ACTAGGGCTA GGGCAGCTGT TTAAAG

SEQ ID NO:61: (Length of Sequence = 491 Nucleotides)

GACACCCCTC CTGCCATGAA GAATGCCACT AGCTCTAAGC AGCTCCCACT GGAACCAGAG AGCCCCCTCAG GGCAGGTGG
GCCTAGGCCA GCCCCCCCGC AGGAAGAGTC CCCTTCTCT GAAGCAAAGA GCAGAGGACC CACCCACCA GCCATGGGCC
CACGGGATGC CAGACCTCTT CGAAGGAGCA GCCAGCCATC TCCAACAGCA GTGCCAGCCT CGACAGCCC TCCCACCAAG
CAAGAGGTGA AGAAGGCAGG AGAGAGACAC AAGCTGGCAA AGGAGCGCG AGAAGAGCGT GCCAAGTACC TGGCGGCCAA
GGAAGGCAGT GTGGCTGGGA AGGAGGAGAA AGGCCAAGT GCTGCGGAG GAAGCAAGCT CCATGGAGCG CCGCTGCCG
TTTTAGGGAG CAAACGCTT AAAGCCGAGC AACGCGTTC AAGCCTTGA GGAACGGCTA GCGGAAGAAG TTTGTGAAA
ACAAGGGCG T

SEQ ID NO:62: (Length of Sequence = 478 Nucleotides)

ATCATGAGT ACGCAGAGCT CAAACAGAC GTGTCCAGA GCTGAGGGA AGTGGCAAT GCATCTCTT CTGCCTCTC
ATAGAGCAAG CTCGTCTCA GGAGGAGTC TGCATTTC TCCATGCGA CCCTTCCAA ACATCTTGC TAGAGTCTAC
ATCAAGAGG GGGAGCGCT GGAGGTCCG ATGAAACGTC TGAAGCCAA GTATGCCCCG CTCACCTGG TCCCTCTGAT
CGAGCGCTG GGGACCTCA GCAATCGCC ATTGCTCGG AGGTGACCT CTGACCAAG GAGCGCTGT CTGTGGCTGT
CCATGTCGA GTTCATCTG ACCCGATTG GAGCTACCT CAGGACCCAT CTGGCGGGC CACCGCCACC AATGCGTATG
ACGTCGATGA GTTTTGAGT TCACTGCTGT GAGCGCATGA GTCGTGACT GAATCTGTG GACAACGGT AAGTTACA

SEQ ID NO:63: (Length of Sequence = 183 Nucleotides)

CCTGGAAAGT GGGGTGGG CAGGGGCCA GCGCCAGCAT GCACCCCAT TTTTGGGG GCTGATCCCT GCCCCAGCTC
TGCTGATACC CCGGCCACA GGTCCAGGC GTTGGGGTG GAGKTAGAG TGGGAGAGCA GGGGAGAGAG CCTKAGGAGC
CACAATGGG CAGACAGAG CGG

SEQ ID NO:64: (Length of Sequence = 316 Nucleotides)

GGATATTGCA CCTTACAGAC TTAGGGAGCC TTTACCAGAG ACGCCTAAAA CGCCCCAGGT TCAGCCATTG TGCTGAATAG
AGTGGAAAT AGAACCAGG ACAGAGTATT TCATTTAACG TTGATATATA CTGTCTAAGG AAACACTAAC AATACTGTAA
CTTTGTAAA GGACATAGTA TTGAAATGGG AAATAGAGT CAGGCTACA TCATCTTAGT TTAATGCTGG GCACTTTTT
CTGATTCTG TAGTTCCCTG GAAATGTGT CCTTCGTACC CATAAGTGG TACAAATGCA TTTGTAACCA TTTTGG

SEQ ID NO:66: (Length of Sequence = 411 Nucleotides)

ATCTGGTCTA GAGAGGCGAC TCCAAGCTCT CTGTCTGGCT CCCAGCTGTG GGAATCCTTT AGGCTTGTTC TCAACCTACA
CGTTAAAAAT GCTTCTTGGT GTGTTTGGG AGGGGAGAG GGAACTGAG CTCTCTCTG ACCTCTCCA ACACCTTGA
CTTGCTTACC CAGCATTTT CAGTAGCTAC ACGGTGGTC ACAGAACT GGGGGCACT CGGCACACAA CACAGAACCG
GGGAGTCCA TGCAGGTGCG GGAACACATG TOGGACCCAG GGAGCAAGGA ACACGCCACC CCGAGGAACA TGCAACGGA
GGAAGGATC CCTTCAGATT CCAAGGATG CACAACCCG ACGGGCGCT TAGGGAGGCA CCGATTATCT AAGGAAAAAG
GCCACTGTTT G

SEQ ID NO:67: (Length of Sequence = 413 Nucleotides)

CTGCTCTTA TGTTTTATT TCCAAAGTTT AGAATTTCT TGCTTCATAG TATTATTTTA TTTTACTAAA TTACAGAGTA
AGAAAAGCTT TTCATTTTAT CTGATTTAT TCTTAGAACA AAAATATTAC GATCTCTAT ATTTTGTTC TTTTGCCAA

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AAGTGTAGGC AATTTTACAT CATCTTTTTT CCCAATCAGT TTGTGATCCA ACTATAAAAA GGAGACATAG AATACTGAAT
 AATGAAACA GAAACTCCAA GGCCAAGAAG TGTCATCTT GAAAGAGTGT TAGTGGCAAG ATATGTGACT GCAGACTAGA
 TGTAGACAAA CCTGAGAAAA ACCAAGCATG GGGGAAAGGA TYCCTATTTT AATAAATGGT GCTGGGGAAA ACTGGCTAGC
 CATATGTAAT TTA

SEQ ID NO:68: (Length of Sequence = 372 Nucleotides)

GCACGGTTAA AAGACCAACG TGTTGGTNC AATATATAAG GCCACACCTT TCAGACCGAA CCTACTCAAA GATCCTTTAC
 TTTGCAATAA TTGAACTGG AGAACCAAG ACGGGAGACG AATGAAAGCA AAGATGCTCA AAGAACCAAA GGAAAGACCT
 GAAGGAATCC ACCTGCATAG GCCACGCGTT CCACTCTGGG TCAAATGCTT CCACGATGCA GAAACCTTTT TTTAAAAAAG
 TGCAAGTCTA ATTACCTACC AAGGGTAATA AAAAGCACAG CACAGGAATG ATTACAGCTG ATGGTCAAAA AACAAACCAA
 AACCATTAATA AAAACAATCA GGCAGAAAAC AGGAGTTAAA TGTTTACATA TG

SEQ ID NO:69: (Length of Sequence = 389 Nucleotides)

TCTAGAACCT GGACCCACCC AGCGCGTCTT TTCTTATCCC CGAGTGGATG GATGGATGGA TGGATGGTAG GGATGTTAAT
 AATTTTAGTG GAACAAAGCC TGTTGAAATGA TTGTACATAG TGTTAATTGA TTGTAACGAA TGGCTAGTTT TTATCTCTGT
 CAAGGCACAA AACCAGTTCA TGCTTAACCN TTTTTCCTT TCCTTCTCTT GCTTTCTCTT CTCTCTCTC ATACTTTCTC
 TTCTCTCTCT TTTAATTTTC TTGTGAGATA ATATTCTAAG AGGCTCTAGA AACATGAAAT ACTCAGTAGT GGATGGGTTT
 CCCACTTCTC CTCAATCGT TGCATGAAAT AATTACTATG GTGCCCTAAT GCACACAAAT AGCTAAGGG

SEQ ID NO:71: (Length of Sequence = 329 Nucleotides)

GAAAAAATGG GAGGGCAGCC ATGTATTAAT TGTACATCCA AGGAACTGT GCCCCAGGGG TCTTGTGTGT ATTTCTGAGA
 AGAGGGGTGA GAAAAGGCAC TGTGTCAACA TTGTCTCTG CTTGAACTGT CACCTCCAG TGCTCTCCA TCAATTAGGA
 GAACTGTCTT GAAGAATGCT GCCTCAGCTT CTGAAGAGAA GACCCAGGA CATGCATTAA TGAGAGGAGG GGAGTCACAG
 CTGCAGAAGA ATAAAGCTCT CTGAGGGAGC CTGGGNGCCC CCACTGGAGG CTTGGAGCTT GTTGACCANN GCAGCAGGAG
 ACCCTTGCT

SEQ ID NO:72: (Length of Sequence = 418 Nucleotides)

CTGAGTTGCC TGAGGTCAIT CACATGCTTC AGCACCAGTT CCCATCTGTT CAGGCAAATG CAGCGGCTTA CCTGCAGCAC
 CTGTGCTTTG GTGACAACAA AGTGAAGATG GAGGTGTGTA GGTTAGGGGG AATCAAGCAT CTGGTTGACC TTCTGGACCA
 CAGAGTTTTG GAAGTTCAGA AGAATGCTTG TGGTGCCCTT CGAAACCTCG TTTTGGCAA GTCTACAGAT GAAAATAAAA
 TAGCAATGAA GAATGTTGGT GGGGATACCT GCCTGTGTGC GGCTGTGAG AAAAATCTAT TTGATGCAGA AGTAAGGGAG
 CTGTGTACAG GAGTCTTTGG AATTATCCCT CATGTGATGC CTGTAAAAAT GACATTCATT CGAGATGCTC TCTCAACCTT
 AACAAACACT GTGATTGT

SEQ ID NO:73: (Length of Sequence = 336 Nucleotides)

CTGAATTTT ATATGCTTCA CTTAGGCTTT CATTTGAGTA GACTCTAAAA ATTCTGCCCT GCTTAAGTNC TAACACTGCC
 TCTCAGATTT CAGTTTGGGA CATTCACAA CTAAGACCTT TTAAACGCAT TTNCTTGCTA ACTCGGAAGA CACATAGTCT
 GCAGCAAGAC ATTCCTATAT TGAAGAAATG AGAGAAAATT TTATGCTGCA TCAGGTGGAG AGCAAGGCTC AACGGTGGTT
 GCATTAGTTC CCTCGGAAGT ATTGAAAAAN CTTTGAAATG GGAAGGAAAA TTTTGTGCAC CTAATGTTCC TGAGGTACCC
 AGAATGTCTG GGGGTT

SEQ ID NO:74: (Length of Sequence = 402 Nucleotides)

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GTGCTCAGTA AATACAAATT GGATGGACTA GAGAGATAGC CCGGAGGACA CTGCCAAATA AATAACAAAT TGTGCAAGCA
 GCAGGCGGCT GTAATTAGAC CAAGGAGGAC AGTCAGTTAT TAATATCAGA CACGTGGCAG GGTAAACAGC CACTGAGGGT
 GGGTACAATG AAGAGAGTCA CTTTCTGCAC CCTCAGGGAC TTCCCTTGTG ATGGCCTTCT AAAGAGGGCT GAACAGCACC
 AAGTGGCCTC GCTGCTCTG GTTCTGCTG CCTCCGCGT GCCTTGGGTG CCCCACAAC AGGGCCCTGG GTCCCTCCCA
 TGTCCCTCTC CCTCTACAA CCCCACAGC CCTTATCTGG CCAGCCATTA TGATGCCTAT CAGTATGAGG CCAGATGAGA
 GT

SEQ ID NO:75: (Length of Sequence = 454 Nucleotides)

GGACCCGGG CCGCGATGT GGCCAGTAC CTGCTCTCAG ACAGCCTCTT CGTGTGGGT CTAGTAAATA CCGCTTGCTG
 TGTTTTGATG TTGGTGGCTA AGCTCATCCA GTGTATTGTG TTGGCCCTC TTCGAGTGAG TGAGAGACAG CATCTCAAG
 ACANATTTTG GAATTTTATT TTCTACAAGT TCATTTTCAT CTTTGGTGTG CTGAATGTCC AGACAGTGGG AGAGGTGGTC
 ATGTGGTGCC TCTGGTTTGC CGGACTTGTC TTCTGCACC TGATGGTTCA GCTCTGCAAG GNTCGATTG AATACTTTTC
 CTTCTGNC ACCACGGCGA TGAGCAGCCA CGGGTCGAGT CCTGTCCCTG TTTGGTTGCC ATGCTGCTTT TCCTGCTGTG
 GACTTGCGGC CGTTTGCTCA TTACCGGGTA CACCACGAA TGCACACCTG GCTT

SEQ ID NO:76: (Length of Sequence = 313 Nucleotides)

GCTTTGATAG CTAGTTGTCT AAAAGTGTG NTAATTAAT AATCCACCTN TTTCCCACT TAAACATCC CTCTTACCAT
 ATACTAAAT CCNGTAGCC TGGGTCTGTT TCTGGACTCT CCGTCTGTC TGACCCCTC CAGGTACAC TGAGTGAGGT
 AATGGTGGC TGAGAATCCT CTGGGAATCT GGCAGTCA CCCNGAGCA GTCCACCCN CAACTCATT NCATCGTTCA
 GAGTGNCTG AGTNTCTCA CACATTCCT CTGCCAATG CACTTAGGA ACTGTCAAAT TCCAAAGTTT CAA

SEQ ID NO:77: (Length of Sequence = 446 Nucleotides)

CTCAGCGTA GCCCTAAGTC GTTTTCCAA TTAGGAAGC TCACAACGCA GATCTGCATT GTCAGTACC AGCTGTTTGT
 GAACCTTTGT AAGCTGTTC AGGTGTCTCT CAAGAAGGA AATCTTCTGC TTTTGGGAGT GAATCCCCC ACTGTCTTGG
 GGCTCCATTT CTGCATTTT CTGACTCGA GTCGTGAGT CTGGAACGAA CAGCTTGCGA AGGTGTGGC SGGTCTGGAG
 TTCCCGGCA ACTGTCTCT CCAGACCTT GAGGTCTGC TTGTGACTGC TCAATGTGCG TCGTACAGAA ATGTGAGCTC
 CTGCAGCTTT GGTGCTCTTC TCGTGGTCT TCGCTCTTC AGCTTCTCTG TAGTCAAGCC TGAAGGCTTC TCTAAGCTCT
 AACTGGAGCT TCTGATTTAA GGTCTTTTGA GCTCATCAA TGGTCT

SEQ ID NO:78: (Length of Sequence = 296 Nucleotides)

AGCCGGTGGC GCAATGGAGA GAATGTGCTT GAGACAGAGC GCCTGGCTGG GGAGGAGGCA GCCCTGGNG CCGAGCTCTG
 TGAGGAGACC CCTGTGAATG ACAACTCATC CATGTGGTG CGCATCGCG CCGAGGAGCG GCAGAAATAC GAGGAGGAGA
 TCCGCGTCT CTATAAGCAG CTINACGACA AGGATGATGA AATCAACCAA CAAAGCCAAC TCATAGAGNA GCTCAAGCAG
 CAAATNCTGG ACCAGGAAGA GCTGCTGGTG TNCACCGAG GAGACAACGA GAAGGT

SEQ ID NO:79: (Length of Sequence = 285 Nucleotides)

CCTTCTCTG CTGGGAAGTG ATGACTCGCA GGTGGGCTT GCGCTGGGG GCTCCAAGCT GGGTGTGTG GGTAGGTGGG
 GCGGAGACT TGGCAGGGAT GACCTTGTTT AGGCTGTGTC CATTGCCAC AGGGAGGAGG CCAGGGAAG CCGAGCACT
 GACGTAGCCA TTCCAACAG GGCTGGGCA GGCTCCGTTA GCATGTTCA GGTACCNCC CAGCATGGCC
 CCGCACTACGCTG GGGCAGGCCA GGAGACACAC TGTCTCTCTG TAGTG

SEQ ID NO:80: (Length of Sequence = 402 Nucleotides)

124

ATGATTTCCTT GCCTGINATA ACCTATGCAC TCACAAAGAT GAACTCTCTG AGAGGGATGA GCAAGAGCTT CAGGAAATCC
 GAAAGTATTT CTCTTTCTCT GTATTCTTTT TCAAAGTGCC GAAACTGGGC TCGGAGATAA TAGACTCCTC AACCAGGAGA
 ATGGAGAGCG AAAGATCACC GCTTTATCGC CAGCTAATTG ACCTGGGCTA TCTGAGCAGC AGTCACTGGA ACTGTGGGGC
 TCCTGGCCAG GGATACTAAA GCTCAGAGCA TGTGTGGTGA ACAGAGTGAA AAGCTGAGAC ACTTGAGCAC ATTTTCTCAC
 CAGGTGTTAC AGACTGCGCT GGTNGATGCA GCCAAGGCC TGAACCTGG TGCAGTCCA CTGCGTTGAC ATCTTTTATT
 AA

SEQ ID NO:81: (Length of Sequence = 246 Nucleotides)

CATTTTAAAT AGAGACGGGG TTAAACCATG TTGGCCAGGC TGGTCTTGAA CTCTTGATCT CAGGTAATCC ACCCACTATG
 GCCTCCCAA GTGCTGGGGT TACAGTTTG AGCCTCTGIN CCGGCCCCG CCAAAGACTG CCTATCTAA ACGTGTCTGA
 GGACGTGGAN CAATCACAGC TCTCCINTCT TTCCAGTGG AGTTTAAACAT GGCACAACCG CCTGAAAACC GTTGGNGAT
 TTCTGT

SEQ ID NO:82: (Length of Sequence = 394 Nucleotides)

GGGAACCCCTC AGCAAAATAT AATGGTACCG CTATTATCAG CCTGTGTCGA GGCCAGGGA TTTTGGGGGA GGTACAGTG
 TTCTGGAGGA TATTCCTCC TTCCGTGGGG GAATTTGCTG AAACATCAGG NAACTGACA ATGCGAGACG AACAGTCTGC
 AGTCATTGTA GTAATACAGG CTTTGAACGA TGACATTCCC GAGGAAAAA GCCTCTATGA GTTTCAGCTC ACTGCAGTCA
 GINAGGGAGG AGTCTGAGT GAATCCAGCA GCACTNCCAA CATCAGGTG GTGGCCAGCG ACTCTCCCTA TGGCCGATTT
 GCCTTPTNAC ATGAGGCAAC TTCGAGTGC AGAAGCACAG AGGGNTAACA TCACAATCAT CCGTTCAGT GGAG

SEQ ID NO:83: (Length of Sequence = 308 Nucleotides)

ATAAGACCAT TGGCAAAGGG AGAATTCATG AACTGAAAGA TCTGAAGTAA TTTCCAGAA TGTAAATGTA AGAAATAAGT
 TAAAGGCAG AGCATAATGA GTCTAACATG TGTGATTGAA GTCTTATAAG GMGAGAATTA AGAMCAGGCA ATATTTTAAA
 GGRATAATGG AGAAAATGGA ATAATTGATG AAATATGTGA ATATATATAG GGACCATATG CATATGAMGG CCGGGGGTGA
 AATAAAACGA AATCTACTTG TACATACTTT ATGGGATTCC TGCAGCCCGG GGGGATCCAC TAGTTCTT

SEQ ID NO:84: (Length of Sequence = 313 Nucleotides)

CTTTAACTTA ATGGCAATTA AAACCTACTG GCAAAAAA TCACTAGAGA TGTCACTCCA TTATCTTACC AAATAGTGTA
 TTTTACCAT CTTTACCTA CACCCITGAG TAAGGTGGAA TAGGTTAAAG TTACTGGCAT AATAACACTT CATTTGAATC
 ATGATAGTAT TTAACATGTT AAACTGTTT AGTTGAAAAG TTCACATGCA ATTTATAATT TAAAAATATG CTACATATAT
 TTCATAAAW TACAATAGGT CATACTARAC TTIGACTAAA ATTAAGAATG TKTTTCTKTC ATAATAATGC AGG

SEQ ID NO:85: (Length of Sequence = 303 Nucleotides)

TGCTCCGTTT ATTGCTCTAT TCAATGACCA CGAGCGAATT ATAAAAAGAC ACCAAATGTC TCTGTCTGCC GTGGGATAAA
 TATTTAAAGT CAGCAATAAA GTCACGTGGC TCCAAGRTAA TACATGPTGC CAAAGAGTCA TGCATGCCCT CCTGATGGGC
 TCTCAACACA CGTATGGWCA TGGGAACACA CGCAGAGCAA CACGCAGTAT GAACITSTGG GAAGGCITTA CCACAGTGAC
 ACAGTAAAT GTCTCAGTA GATCTGRGCT GAGTCCCCAC CCAAACCTTG AGCTCCCCIT CCA

SEQ ID NO:86: (Length of Sequence = 380 Nucleotides)

AAAACAAACC AGCTTTAATA CCAATATAGT TCTCTCTTAA ATACCGTGT TCCCAGGACA AATGCAGGGG CAGGCTCTTG
 GCAGAAAGAG TAGAAAGGAA ATGTGGAACA AAATGGAATG GATGGCCAG GCCCAGGGTC CCTGCCCTTG GCACTAGGGA
 CTGGGCTGCC TCGGGGATGG GGGAGTGACA GCAGCTCCCC CTGGTCCAGT TATTGCAGAG GGTTCGGGG CTCCCTCC

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TCCCCAGGCC TGAACATTT CTCAGGATTA CTTCAGCCT TCAGCCCCAG CAGGGCCAGG GCCTGGGCTC CTCTGGTCTA
GGATGGGCCC CTTTGCCCAA AAGGCGCTTC AGCTAAGCG TGGGTGGG CGGGAGCCC

SEQ ID NO:87: (Length of Sequence = 280 Nucleotides)

GCCTTGCTG CTATTGCA TCGATGGTGA AAGAGATGTC AGGAGCACTT CTCGCTGAG GTGGCTGAGA CGAAGAGGAC
TCTGCTGCA GCCTTGCGC ATACCTGGCA ATTAGCCTGT GTCTTCATC AAGCGGTIT GAACTCTCAA GCATGCTCCT
GGTAATAAAA GGACTTCCTG AGGAGGGAAC AGAGTGAG AACAGGGTGT CGTTCATGCT GGTACAGGT CTGGGAGGCA
CGATGTGAGC CAAGTTGAGT GGCTTCTCAG GCTGATCTGG

SEQ ID NO:88: (Length of Sequence = 446 Nucleotides)

CCTGGTCTC TTACACCCYC TCCCACCCGA GGCTCCCAG AGATAGCAGA GAATTCGAAG AGGTGCGCGG GGA CTGGAAA
GAAGTCCCG NAGGCGCGCT TCGAGTCTA CCCCCAGCC TGCTTCCCAG CCTACAYCCA GACCCAGCTC AGACCTTCGT
GACCACCCA TCCCTTCTC CGGCTGGCTG GTGGGGGGC ATCCCTCTCT GTGCTGGCT TCCAGAGGCA GGACAGGCCT
CCTGGTAAGC CGCAAAGTT GCTGACCTCC TGACTTCGTC TGCCCTTTAT TAATATCTGT ATTGCTGATA ACCGTGCTCT
TGACTATGTG TOCCAGGTCA TGTCCAGGT CATGGAGAAG CCGTGCCAC AGTGACCTT CCATACTTC TGGGGGGGCT
GCTCTCCATC TGGATCGTAG GAGGATATAG GTGTGTTCTG GACCAT

SEQ ID NO:89: (Length of Sequence = 384 Nucleotides)

GTCCCTCTG GGGACTCTRT TTCCCATTT ATGCTGCTG TGTCCTTAC CAGTTCCTTG CAGGATCCC TCCTTTTAAA
ATGCCCTTAA ATCTAGCTTT GCCTTGAGA CCCAGTGGG TGCTGCTCCT GCGTTTCTT TCTGCAAG CCTGAATCAA
TGTTTCACT CCAACCTCT GCCAGTTGG CCGCTCAAAG CTGTTGGCT CAAGACTGTW AGCCTGGCAG AGCGCGNGG
TGAAGGGAGA AGCTCTTGA GCAGGCAGGA TGCCACCGCT GCTTCAGCTT GCCTCCTGCG CCAGTACCC TTGGCCCCA
TTGGGCCCTC GTTGCTCTT CCAGGATGT ATGTTTCAAG NCTTGCTG TGTTCTTGT TCTG

SEQ ID NO:90: (Length of Sequence = 344 Nucleotides)

TCAAGCTGGA AAGGGCTACT ACCTCATGCT GGAAAGGCT ACTACCTCAA GCTGGAAAGG GCTACTACCT CAAGCTGGAA
AGGGCTACTA CCTCAAGCTG GAAAGGGCTA CTACCTCAAG CTGGAAAGAG CTACTACCTC AAGCTGGAAA GGGCTACTAC
CTCATGCTGG AAAGGGCTAC TACCTCAAGC TGAAAGAGC TACTACCTCA AGCTGGAAAG GGCTACTACC TCAAGCTGGA
AAGGGCTACT ACCTCAAGCT GGAAAGAGCT ACTACCTCCA AGCTGGAAAG GGCTACTACC TCATGCTGGG AAAGGGCTAC
TACCTCAAGC TGGACAGGGC TACT

SEQ ID NO:91: (Length of Sequence = 364 Nucleotides)

GCCCCAGGGT GAGGGCTATG AGGGGTCAGG GTTCAGGTTT CCCAGGACCC TAGTCTTGT CCGCTTCCCT GGTGCTAAAT
AAAAGTGAAT AAATACTAAA TAAATACAAC TGGGGCCAG GCCCTCCCTG CCTTCCCCCT CCTCCTGTG ACCCGCAGCA
GAGGGGGCAG TTAGATGGA GGGCTGTCTG TCAGCCCTT CCATCCACTA ACCCATCACT GCCTCCAGG GCAGGAAACC
AGGGCAGGGC CAGCCTGCGC ATTAGGGCAG AGAGGAGGGG CAGGTCTCAC GCCACAGCC CCTTCCACT TGAGTCTTAG
CATGAGGCAG CAACAGAAGC TCTCTCTTC TCCAGCTAA GTCC

SEQ ID NO:92: (Length of Sequence = 218 Nucleotides)

ATTTAATAGA AAATTAAT AAATAAAT ATGAAACAGA CTGATAACGC TGAGCTGGGC AGGCCAGGC CAGTCTAGTA
CAAAGTTAAG GAGGTAGGGA GGATGGTGGG GAGGAGGGG CGGACTACCC TGCAGGAGCC GGGAGGCTGC TCAGACTGTG
GTGATGTCAG GAAGGGCCGC ACCTTTGGC ATGGAAGATG CACTAAAAA AGAGAAG

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SEQ ID NO:93: (Length of Sequence = 364 Nucleotides)

GCTTTCAGG GAACAAAGAA TCGGCCTGG AGTGCCCTGG AGAAGGAGGT GGAGAGCATG GGGGCCCATC TTAATGCCTA
 CAGNACCCGG GAGCACACAG CTTACTACAT CAAGGCGCTG TCCAAGGATC TGCCGAAAGC TGTGGAGCTC CTGGGTGACA
 TTGTGCAGAA CTGTAGTCTG GAAGACTCAC AGATTGAGAA GGAACGTGAT GTGATCCTGC GGGAGATGCA GGAGAATGAT
 GCATCTATGC GAGATGTGGT CTTTAACTAC CTGCATGCCA CAGCATTCCA GGGGCACACC TCTAGCCCAG GCTTTGGAGG
 GGCCCACTGA GAATGTCAGG AAGCTGTCTC GTGCAGACTT GACC

SEQ ID NO:94: (Length of Sequence = 423 Nucleotides)

CTTCATACTA GAACTGTCTG CCATCTTTAT TTCTTTGTTT TCAGGAAAAT TGGAGAGAAA AGTATTTCCTT TTTTAAAAAT
 GATTATTATA CTTTAAGTTC TGGGATACAT GTGCAGAACG TGCACGTTTG TTACATAAGT ATACACGTGC CATGGTGGTT
 TGCTGCACCC ATCAACCCGT CATCTACATT AGGTATTCTT CCTAATGCTA TCCTCCCTT AGCCCCCAC CCTCCAACAG
 GCTCCAGTGT GTGATGTTC CCTCCCTGTG TCCATGTGTT CTCATTGTTC AACTCCACT TATGAGTGAG GGACATGCAG
 TGTGTGATTT TCTGTCTCTG TGTTACTTTG CTGAGAATGA TGGCTTCCAG ATTATCCAT GTCTTGCAA AGGCATGAAC
 TCATCCTTIT TATGGCTGCA TAG

SEQ ID NO:95: (Length of Sequence = 405 Nucleotides)

AACAGCCCC GATCTGCATA GCCTGTGAAA GCGCACGGG ACATCAGTAA CCTTCTGCAG CCACCATCCA ATGCCATTAC
 TGTAAGTGA GACTTGCCA CTGTAGCCTG GGCCTGCTGC AGGAGCTCTT CAGAAAGGCA CATGAGGACC ACGTTTGCC
 TCAGTTTCTG GTAAACACA AGGTCTGGAG TGCCCCGCA AAGGTAATG ATGGACTTCC TGCCAGTGAC AGAGCATGTC
 TATGCAAC AATTCTCTCA GTTACGTTCA GCACCTAAGA ACGCTAATG NCAATAGSAT CTTTAGCAAC TTTTTCACAT
 CATAGAAGGT GCAATCGCTC ACTTGGGAAC ACTACTGAGA GTGACTTCTC TTTTAAATTT GAGTAGCAGA TGAAAAITTA
 AAATT

SEQ ID NO:96: (Length of Sequence = 173 Nucleotides)

GAAGACAATA CTGATGCCAG CTCTTTGTAA TTGTGAAATC TGTACCCAAA CCTCTGGATT AGAATCTCCA GTTGCTACT
 GTAAATACTG GAATTACAGC AAAGGATATG GGGACTGGGC TGCTTTTCTG TATTGTACAA GCACTATTCT AGATATTAAA
 GAAATTTAAC CCC

SEQ ID NO:97: (Length of Sequence = 337 Nucleotides)

ATGGCGCCCT ACAGCCTACT GGTGACTCGG CTGCAGAAAG CTCTGGGTGT GCGGCAGTAC CATGTGGCCT CAGTCTCTGT
 CCAACGGGCC AAGGTGGCGA TGAGCCANTT TGAGCCCAAC GAGTACATCC ATTATGACCT GCTAGAGAAG AACATTAACA
 TTGTTCGCAA ACGACTGAAC CGGCCGCTGA CCTCTCGGA GAAGNTGTG TATGGACACC TGGATGACCC CGCCAGCCAG
 GAAATTGAGC GAGGCAAGTC GTACCTGCGG CTGCGGNOGG ACCGTGTGGC CATGCAGGAT GCGACGSSC AGATTGGCCA
 TGCTCCAGTT CATCAAG

SEQ ID NO:98: (Length of Sequence = 212 Nucleotides)

TGAAGCCCAA GNAGTIVGTG AAGACAGAGA ATGACCACAT CAACCTGAAG GTGGCCGGGC AGGACGGCTC CGTGGTGCAG
 TTCAAGATCA AGAGGCACAC GCGCTGAGC AAGCTGATGA AGGCCTACTG AGAGAGGCAG GGCTTKTCAA KGAGGCAGAT
 CAGATTGAGK TTCGACGGGC AGCCAATCAG TGAAACTGAC ACTCCAGCAC AG

SEQ ID NO:99: (Length of Sequence = 26 Nucleotides)

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CCTTTTAATA ATAATTCTGC TGCTGCTGT GACTAGAAC CCATGCCTAC TGCTTGGGGT ATAATGTAGT AAATGTAGTA
 AAAACAATAT CCGCCGGGCG CGGTGGCTCA CGCTGTGAAT TCAGACATT TGGGAGGCCA AGGAGGGGG ATCACGAGGT
 CAGGAGAGCG AGACCATCCT GGCTAACATG GTGAACCCCC GTCTCTACTA AAAATACCAA AAATTAGCCA GCGTGGTGA
 TGGAGCCCTG TAGTCCCAGC TACTC

SEQ ID NO:100: (Length of Sequence = 333 Nucleotides)

AAAATGCTCA CAGTGGTCTT CTCTGGCCGG TGAGCTACA GCTGATCTTG TCAGAGACAA ACGTTAGTTT TACTGAGTCA
 CCCAGAGCCC TGTGCTGGTG CTTGAGGGTT TGTTCATGG GACAGTCTCC ACAATTCCTC TGGGAAGGG CCACAAATCC
 CACAGTGTGT CCCAAGAGGG CTGGAGTAGG CGGAGTCCCC AGCAGCTGTG GCATGACCAG CCATCTCTCT CAAAACAATT
 GTTAACAAGC CTCTGCAAG TTAAGGTTC ACATGGTAGC CGTGGTACAG AGGCATTCT CTAGGGTGGG AGAGGCTTGT
 GCTCTACACC AGG

SEQ ID NO:101: (Length of Sequence = 156 Nucleotides)

CTCTGACTTT CCTGTGGNTT TAGAGCCAAG CTCAAGGTAG TAGGCCGTAG GGNCTTATTT TATTTTCAA CCCCCATCCT
 CAGAGCGCAG ATACATGCAG AGGCTTCTGC CAGGCTACCA CGGGCCCTTA GTGGGAACAG GTTGAGACCA GCATT

SEQ ID NO:102: (Length of Sequence = 331 Nucleotides)

CGAAAGGGG NNNATGGCC ATCTTTTATC AGAAAAAGTG ACAAACGGG AATTTAAAA ATGAATTTTC NNTCTGACTT
 TATTNNAAA TACACTTTCT TTTTNNAAA ACCAATACAC TTTCTTTGAG GATGACAGTA TTAGGAATC CAATTNNACA
 AAAATACTA CATCTAGTCT GGGGTAGATA TATTTATTTT TGGTAACATA CATTAGTGG CACTAATTAC ACAGTACTA
 TAAGGTAAT AACATGAAAC CACAGAACTG TAATCTGCC ACAGCTGCAT GAACTTGGGC TTTCTGGTT GAGCCCAATT
 TCAAAAACT G

SEQ ID NO:103: (Length of Sequence = 316 Nucleotides)

AGCCACTGCG CCCACCCCA TTGGGTGGIN ANCTCAGCTC ACITCAACT ACCCCCTCCA AGTTCAAGTG ATTCTCTAC
 CTCAGCTCT TGAGTAGCTG GGATTACAGG GGTCTGCCAC CACGCTGGT GATTTTCCTA TTTTGTAGTG AACTGCAIT
 TCACCAGGT GGCAGGCTG GTGTGAAT CTTGACCTCA GCTGATCCAC CGTCTCGGG GTCCCAAAGT GTTGGGATTA
 CAGGTGTGAG CCACCACACC AGGCCATAT TTTCTTTAG ACATGCAGGC AATGTTGGTG GTTTGTCTG TTAAGA

SEQ ID NO:104: (Length of Sequence = 308 Nucleotides)

GTTTTCTCTG CATCTATTGA GATAATCATG TGGTTTGTG ATTGGCTCT GTTTATATGC TGGATTACAT TTATTGATTT
 GCGTATATTG AACCAGCCTT GCATCCCAGG GATGANGCCC ACTNGATCAT GGTGATAAG CTTTGTATG TGCTGCTGGA
 TTGTTTGTG CAGTATTTTA TTGAGGATTT TTGCATCAAT GTTCATCAAG GATATTGNC TAAAGTGTG CTGTATTGAG
 GAAACCCATC TCAGTGCAG AGACACACAT AGGCTCAAAA TAAAGGGATG GAGGAAGATC TACCAAGC

SEQ ID NO:105: (Length of Sequence = 355 Nucleotides)

GGCCTTCCTC AATATGTAGG CGCCACTTTT TCTCCCTGTG CCTCACCTG GTCACCCCTC TGTGCGCGAN ATCCCACTGT
 CTCTCTGGGT GTCCAACTT CCTCTCTTA GGAGGACACA AGTCAGATTG GATTAGGGCC CACCCCAATG GCCTCATTTT
 AACTTAATCA CCTCCCTTTT GTTGGGCTT TTTAACTTAA TCACCTCTTT AAAGACCTTA TCTCCAATA AGGTTTCAIT
 CTGAGGTATA CTGGAGGTTA AGACTTTAAA ACACGAATTT GGAGGGGACG TAATTGAGC CATAACAATA ACAATAATGA
 CATCTACAA CTCTAGCCA CCACCAAGCT TGCTG

128

SEQ ID NO:106: (Length of Sequence = 355 Nucleotides)

GGATGAGGTC GCCGGGATCG TGGCTGCACG CCACTGCAAG ACCAACATCG TCACAGCTTC CGTGGACGCC ATTAATTTTC
ATGACAAGAT CAGAAAAGGC TGGCTCATCA CCATCTCGGG ACGCATGACC TTCACGAGCA ATAAGTCCAT GGAGATCGAG
GTGTGGTGG ACGCCGACCC TGTGTGGAC AGCTCTCAGA AGCGNTACCG GGCOCACAGT GCCTTCTTCA CCTACGTGTC
GCTGAGCCAG GAAGGCAGGT CGCTGCCTGT GCCCAGNTG GTGCCCGAGA CCGAGGACGA GAAGAAGCGC TTTTAGGAAG
GCAAAGGGCG GTACTGCGAG ATGAAGGCGA GGGAC

SEQ ID NO:107: (Length of Sequence = 273 Nucleotides)

GTGTCTCTTT TAAAGAAAAC ATACTTTATT TTGGTCTAAA TTGTGAAAAT ACCCAAAACA TTGTATAGAA ATTGAACCTT
GTCAACAGTG TTATTTATAC TAAGATCAGG ACAGTTCCTT GAGATCATAC TGTTTTATTA CTAAGTTTGG CCTTTGTTTT
ACAAATGTAA TGTTTCATAT TATTTGAATT TTAAGATTGG TTAAATGTTA ATGAAAAGCA ATCCAATTGT TANTTTTTAG
TAGTGCCCTT TCTCTGTATG CCTTAATTTT ATT

SEQ ID NO:108: (Length of Sequence = 359 Nucleotides)

ATTTTATTTT CTTCATCGA AGAAAATGTT AAAGAGTATC TGCAGACACA TTGGGAAGAA GAGGAGTGCC AGCAGGATGT
CAGTCTTTTG AGGAAACAGG CTGAAGAGGA CGCCACCTG GATGGGGCTG TTCTATATCC TGCAGCATCT GGGAAATGGAG
TGGATGATCT GCAACAGATG ATCCAGGCCG TGGTAGATAA TGTGTGCTGG CAGATGTCCC TGGNTCGAAA GACCACTGCA
CTCAACAGC TGCAGGGCCA CATGTGGAGG GCGGCATCA CAGCTGGGCG CATGAAAGCA GAGTTCTTTG CAGATGTAGT
TCCAGCAGTC AGGTAAGTGG AGAGAGGCCG GGATGAAGG

SEQ ID NO:109: (Length of Sequence = 360 Nucleotides)

TTTATNAAAG CAGTTAACT TAGCATTAA TAACACTCTT TAAATGGTAC ACCTATGAAG CAAGAGTTAA ATATAAACC
AGTCTAATCC TGTACACTTG TGATTAAATG TGACAATCTT AAGTTGCTCA CTCTTTTCCC ATTTACCAAT TCAGAGAAAG
CCCGTTTCTT GTTTTCTCTT CACCACTTTG CCTTGGCATC ACACCAACCC TGCTCTGGGC TTCAGCTGCA GATCCTCCCC
AGCCCCCTCT CCCAGCTGGG CTGACTCCAG TCCCAGCCCC AGTCTCCACC AACTGAGCAG CGTACGCAGG GTTGTGTCTG
GCTTCCAGCA TCTACCAACC CTTCAGAGCA ACTT

SEQ ID NO:110: (Length of Sequence = 364 Nucleotides)

TCTCAGAGGG GCTCTGGGGG TCATTCAAGG GGGACTTCTA GCTTCTCTCT GGAACCCCTT GTCCAGAGCA AAGCCAGGTT
TCCAAGGTCC CCACGGCAAG GCTGTGGGT GCTGGCAGCA AGAGGTACAC AGCAGTTCTC CCAGCTCACA GCAGTGACCT
CAGATCTCCA GCAGCAAGGG CCGCACTCTC GTGCCACAA GGGCCTTGCA GAAATNCTCC GGTCCCTGGG NCTCCCCCGG
CAGGAGGGGC GGGGCTCTTG CTTGCACTGA GGCCACAGCA CTAAGCGGCT TCAGTCACAT GCTTTTCAGG TGAATCACTC
CAAATTCAGT GAGGAGGGCC ACGACAAGGA AGTTCAGSTA GAAG

SEQ ID NO:111: (Length of Sequence = 455 Nucleotides)

TTTTTTTTTT TATATTTTAA ATGGAATTTA TTCTATCAAC TGCTGAGAG GACACAATGG GGGAGGGGCT TCGGACCACA
GCAGGAGCCC CGACTGCCCA CTTGAGGGCA GGGAGAGCCT GACCCCATTT GCCCAGGCC TGGCTCTGTA ACCATTAAAC
TCTTCCCCCA ACTAACACCA ATGAAAACAC CATTCCACGT GACTGGGCTG TGTGTTTGCC TCTGTGACAT GGGGACCCCT
GACCCTAGGG GTCTCGCCTG AGCCAGACCT GAGGGACCCA CCGCGTAGG ATGGAGGAAG GTTTAGGCCT CCCTTTGGCC
AGCCAACGCC GGGGGTGGG GCAGACCTTG GGAGTGGGCC TTACAGACCA GCCACAGSTA TTTCTTAGGC AATTTGACAC
ATTTTATTAC AAAACCACTC TACATTCATT CCTAAAAGG TCATTTTCAG TAAAA

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SEQ ID NO:112: (Length of Sequence = 398 Nucleotides)

CTGATCTGAC AGGAGGTGTA GGTGAGGAG TAATGGAAGT SATGGGGAAC AGCTGTAAAT ACAGATAAAG CTTTACTCAC
 TCGCCACCC ACTGCTCATC TCTGCTGTA CTGCCAGTT CTTAACAGAC AGCAGACAGC TACTGGTCTG TSGCCCAAGG
 GTTGGGGACC CTTGACATAG ACTAAACAAT TCACAATGTT TATATTAAAC AACTTATTCC AAGTTTCCAT TTTAGACTCT
 GGAACATCTG ACATGGTGAA TCCACAGGTA GTAAATSGGA AGGGAGATAA CAGACAACCT GACGGCCGTG GAAGACGCAC
 TGGGGGGGCA CTGTGACGG GTCTGGGAC AGACTTCACA TCTCCAGACT GGCACAGTGG GCTCACACCT GCCTCCCA

SEQ ID NO:113: (Length of Sequence = 444 Nucleotides)

ATCAGTGTCA GTGTCTAACA GAAGGGTCTG TTAAGGATGC TTCTGATTTA ACCAAAAGAT TAAGCTTCAG AAACAATCTA
 ACATACTCAA AGGAGCACCA AATTATCAAC CGGCTACAAG GATGCAAAGG ACCTAAACAA CAGATGTCAA AGGGCTTGTA
 AAAACTGGAG CCAGCAACCA TTCCACTTGA AGGAATCCAT CTCAGGGAAA TGCTGGAATC CACACACAAA AGCAGGTGTG
 CAAATAATCA CTGCAGCAG CCTTCTAATA GTGAACAACA GAGGCAATCC AAATATCCTT CAACAGGGAA CTGAGTAAAT
 ACCAACTATG GGCATATCCA CATAAGGCTC TCTGCAGTCA TTAATAAGGA TTGCACCTAC ATGCATGTCT GCCATGGAGG
 TCTTTTAGGC CAATGGTTCC ACTCGGAAGG GCAACCACCA ATTA

SEQ ID NO:114: (Length of Sequence = 472 Nucleotides)

TGGGGCCCCA ACGGAGACCT GGGGATGCGG GTGGAGGCGG GAGCGGAAGG CGAGGAGGAC GGCTTCGGGG AAGCAGAATA
 CGCTGCCATC AACTCCATGC TGGACCAGAT CAACTCCTGT CTGGACCACC TGGAGGAGAA GAATGACCAC CTCCACGNCC
 GCCTCCAGGA GCTGCTGGAG TCCAACGGC AGACAGCGCT GGAGTTCCAG CAGCAGCTCG GGGAGGCCCC CAGTGATGCC
 AGCCCTAGG CTCCAAGAGC CCCAACCAG GACCAACCC TGCTCCCTG GGGCTAAGCT CTGGCCTGGG GCACTCACCC
 CCTGGCTTAG ACAACTTCTC AAGGGCTTGG CCTTCAGGGG ACCCTTGTGG GTCTTGCTT GCTGGGGCCA CCTTTTCTTG
 CTGGGGCTT CCCCTTGGC CTACCTTGGG GCAAGCCCC TACCAACTTT GGATTGCCTT CTGGGGGCC AA

SEQ ID NO:115: (Length of Sequence = 293 Nucleotides)

CINGGGGCA TGTTGGCTGAT TTCCATCACC TTCTTCCAT TKGCTACGGC GACATGGTGC CCCACACCTA CTGGGGGAAG
 GGTGTGTGCC TKCTCACTGG CATCATGAGA GCTGGCTTTA CCGCGCTCGT GGTTGGCTGTG GTRGCTCRCA AGCTGGAGCT
 CACCAAGGCT GAGAAGCAG TGCAACAATT CATGATTGAC ACTCAGCTCA CCAAGCGGT AAAAAACGAG GCTGCTAACG
 TTCTCAGGGA GACGTTGGCT CATCTACAAA CATACCAGAG CTGGTGAAG AAG

SEQ ID NO:116: (Length of Sequence = 448 Nucleotides)

TTTGAAAATT TAGAGGATAT TTATTTCTCA GGAAGGTGCA CAACAGCTGG CAGGCACCTG TTTCCCTGCT CTAGGGGATT
 CCTCTCTCCT TTTCAGAA ATCCCTCTC TTCTTAGAAG TGCCCATGG AGGCTGGGAT GTGAAAAGAA ACCATACACA
 ACACTCCAGA GCCTTAAAAA AATAAGCAA CAACCTCTC CACACGAATA CACTTACAAA ATAAATAGAC GGATAAAGA
 GAGGCCACGT GCCTCCATC CCGGCTGTAG GGCTGCTTGG GGATAGTGGG GCTGGGTGGC TGGTCCAC TTCTCCAGC
 CAGGATGATC CAAAGGCTAA ATGGGATGA AGGGCCTGG CTTTCAGAGA GAGGGTGGG CAGGCCTCTC CTGGTACTCA
 GCAGGGAGGA CACTGGGGCA CGGTAGGG TCCAAGGCC ACTTAATA

SEQ ID NO:117: (Length of Sequence = 551 Nucleotides)

GAGACGGAGG CTGCTCTGT CCCCAGGCT GGAGTGAGT GCGAGATCT CAGCTCACTG CAAGCTCCGC CTCCGGGTT
 CACGCCATTC TCTGCTCA GCCTCCGAG TAGCTGGAG CCAGCGGCC CAGCCTAAAA AACTTTTCAA GTCAATATTA
 CTAGATTTA ACATTAGAGT GTGACATGT GATTTAATCG CTATAGCTAA AATACGTCAA ATATACGTTG TCAATGTCTT
 GAACATGATG CTAACCTGA CAGGATGAAG GAAAGTAATA TTCTTTCAGT GTAGTTCAGG AGACATTG TTTTCTTTT

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TACCAATTAA CCCATCATTG CTTTAAACA ACCATCTGAA GGAGCAGAGA GGCAGGGTAG AAGACAGAAG GGGGTCTATG
TGGGTACTAA AGATGTTTCT GTTTTGAAT ATTGTGTGTG TGTGGGTTTA TGGTTTGCTT AAGGGATCAA AACCTGGAAA
AAATGGGATT CCAGGAATGG CTCGTATT TTTCCTGGGT TCCAGCTTGT AATGCCTACT GCCTTGGTTC A

SEQ ID NO:118: (Length of Sequence = 426 Nucleotides)

CCCCACCCA AAATCAAAC TGAAGGTAGT GTCAGTGTAT ATATGNGTC CCTGTGCTG AAAGTCAAAG CAGCTTCATT
TTGGGGCCTC AAGAGCTCCA GCTCTGGGCT CTTACCTCT AAGCCCATGG GCAGTGCCG CCCAGTGGTG TGTATAGATC
GGAGGCTGAG GGCCTCACC TTAGCTGAGC TGTGCGTGC TGGGGAGCCT GTGCAGGAGG GTACAAGTAG GAAAGTGCCA
TCTGCATGGG AAGAAAAATG CAGCGTCTT GGTAGTGGG ATGGGGTCCA GGAGACCCAG GGAGCTTGCC CAGAGGGACC
TGAGTGGCAT TCCTGTAGGA AAGCAGCCCA GATCTTGGG CCGTAACGGA TGTCTGGAA GTTTTGACTT TGAACACCA
GGTCCCATIG TTAACAAGCT TCTTGA

SEQ ID NO:119: (Length of Sequence = 434 Nucleotides)

TTTTTCGGIT AAAAAGGCCC AAAACITTAT TTAGTTTTC GGGAAATATA AGATGCATGT AAACATAAAA TACAAAACAA
AACCCTAATC TTACAGTCTA GAAGCATGCC AAGACAGAGC ATTTCTGCA GACCAAAGAG TCCCGTCAA GTGATAAAGG
ACACCTGAA AGTGGCAGGC CAAGGGGCTG GTCCCTTCCC CAAGGGCACT GCATTTTGT GATGAGATTA AAAACAAACC
AACTCCACTA TTAATAATGC TAGAAACATG GGATAGTTTA GCACCACCAT TGATTCTGGC AAATATTTC GACTCACAT
CGACTGCACT GAGTTTAAATG TCCTTCTCC AGTTTCTCTG CTGAGAGGG AAGGAGGGAA ACCTGGGCGG AAGGGGCTCC
TCCTGACCCC ACAGGGCCAC TAGGAGCTTG GAGG

SEQ ID NO:120: (Length of Sequence = 276 Nucleotides)

AGGAAGTGT AGCAAATGCT ACCATGTGGA AACTCAACT TTATTGTCTT TATTATATA TTAAACAATT CTAAGTATT
TACTTCTGC TTGACAAAA AATGAAAAAT ATAGGGGCAC TGACTGACTC CTCCTTAGGA GAAAAGGTT ATATGTACAG
CTATGGAGAG TTACGGTCC CCTTTAACA AAGGCAATA TTAATAAAA AGGCTTCAT CGGTCAAAA AGGCTAAGA
GCTGCAAGCA TTATTCACA CTGTACATCG GGCCCC

SEQ ID NO:121: (Length of Sequence = 554 Nucleotides)

ATTCTTTCC TTAATCATAT CTGATGCTGG GATGIGGGTA ACCCAAACT GAAGGCAGCT GCTAAATCTC AAATGCTAAA
AAAATACGTC AATTTTGACA TCAGTGAGTC AGATCAATAC ATCCTCTGGG GCTGATTTTG CTTACAGTT AGGATGAGCC
ATCTCTAAG CTGCAGGCTC AAATGGGATT AACTGAATC TATACCTGGG ATGGGCCATG GACTGAGCTG TCCATGCAGA
AGGACCAGGC TGTCATGCC TTCCCTGCC TTTTACTCAC CACTGCACAG CAGCCCCAGT GGGCCTACTG CACATGTCTA
GGAGAAATCA CTCTAAGAAA ACCAACAGGA ACAGGCTTTA GGCAACAAGA GACGTCTCAC TGCATCTCCT CCCACGTCAG
AACTGAGTA CTGGGTCTTT GCAGCTCAGA GCATTCCTCC CTTCCCTTTT CTGCCGAAA GGCTGCCTT TTCTGAGAC
ATATGGCACT CCATGCTGCA AGTTTCAAGC AGATGCAGGT TCTTATGGG CTTTTGCTC AAAGAGCTTT GGT

SEQ ID NO:122: (Length of Sequence = 238 Nucleotides)

CACCTAAGCA GTTAGACATC GCAAGTCA GATGCTTCC AACATGACAC CTGAACATCT TCCTTTATGC AACACCAAA
CATCTTGGCA TCCCCACCC AGGAAGTGG GGGAGAGGT TATGATCCCT GGGCGCTTG GCAGAATGA GAGCTGAGGT
GTCCCTCCCC TGCTAGTCAC CTACCAGGTG TCTGAGCAGC TGCATGCTCC CTGGCTCAAG TGGGCACTGT ACCTTTTG

SEQ ID NO:123: (Length of Sequence = 244 Nucleotides)

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ATCCAGGCTT TCATTCTAG CCAACCTCA AACACCACCA ACTACAAAGA AAATTTAAAA GTCTAATTG TAACCTTCAG
ATAAGTATAA ATTAGTTTTT TCTAGGCTTT CATTATTTGG CTCTTTATAC AATCTATCTT GTAAAGTACA TTCTCTTAAA
TTTACATTAT CTAAAITTAA GGCTAAGCAT TATTTAAATC ANTTAATCAT ACAATATTTT ATGGCAATAT GCACATATTT
ATAA

SEQ ID NO:124: (Length of Sequence = 330 Nucleotides)

CTCAGCGTAT CATAGGCGTG CTCACCTCC TCCCCAGCT CCCCCCGC AGGCAGGTGG TGTAGGATAG AGTGGTGCAT
GAAAGGGGGG AAGCCCGAGG GGCCCGCTGG GAAGGGTGGT GCCCCGTAAA GGGCATCCCA CTGGCACTGT GCCTCANCTG
CCGCTTTCTG CTTAGCTCA GGCAGTGGC GCGCTGCTC TTCAATCACT TGTGTCCCT TCTGCTGCAG AGCTAGTTGG
CGCTTTGGTC TCGATGTCTT GCASTGTGGC TGCCAGGTTG CAAGGAAGGC TGCCCGGTGC CATTCCTGGG GTGAGTAGGA
GCGCTCTTTT

SEQ ID NO:125: (Length of Sequence = 281 Nucleotides)

CCTCTCTCCC TTCGGTCTC CATTTACGA GCCACAGTAT TTCTTAAAGC TCGTTGGCAG CCTGCACCTT GCTTATCTT
GGGAGACAG AGTTTGCATC CTATTACAAC CCATAGTTTT TGCCATAACA TGGTGAAGG AACCATCTT CCCAATCCCA
ACCTCAACCA AAGCTTAGAA AAAGTGCCAT CNTTAACCTT TCAGAATCAC TCATAAGTAA ATCTATAGC AGTCTCTGCT
AATGCAAIT TCAATGTGTG CCGCTTATT AGGTGACTTT T

SEQ ID NO:126: (Length of Sequence = 266 Nucleotides)

CTTTAATGA TGTGTTCTG GTGGGATTA TAAAGGAGA TGGACCCCTG GNAAGATGCT TTCTMAACC ACAACCCACA
CATTGGGTCA CCATTCTCTC TTCTCTCC TTCTGTGGT GCGCGAGAC CTGTAGGACC TTCCCTCCCT TTAGGGTCT
GTAAGGCCCC TTTCAGTCC TCAGAGTCCA TTCTCTCTT GTGCTGAGG CCTGCAGTGG GGACCATATA CTCTGTGTG
TCTTAGTTG CTGTGCGTC TGTTT

SEQ ID NO:127: (Length of Sequence = 435 Nucleotides)

GTCTGTTCT ATTCATTTG TAGTTGCGAG AAAAGGAATG AACCGTACT ATGGCAATTC ACCGTGACGT GTGATAATTT
AGTTTCTAT GAGTTTTCAC TCTAGGTAA AACCTAGTTA TCTAATTA TAATTAGTTA TGGATGATAT AGTAATTTTT
TTTTTTTTG ACTGCGTCTC ACTGTCTTC GGGCTGGAGT ACAGTGGCTG ATCAGTTC GGTGCAGCT CGACCTCCCT
GGGCTCAGT ATCTCTCTC CTCAGCTCC CAAGTGGCTG GGGATTATGG GCATGCACCA TCAATGTCTG GCTAATGTTT
GGTGTGTTTT TTTATAAAGC CAAGGGTTTT GCCCATGTT CAAGACCCCG GGGCTGGTCC TTGAACCTCT TTGGGGCTTC
AGGCAAGTCC TCCACCTTC GGCCTTCCC AAGT

SEQ ID NO:128: (Length of Sequence = 471 Nucleotides)

TTCCCTTCCC AAGGACTCGA CTTGAGAACC GCCATGTACT CGGAGATCCA GAGGGAGCGG GCAGACATG GGGGCTGAT
GGCCCGGCA GAATACAGAG AGTGAATCC GGAGCTCATC AAGCCCAAGA AGCTGCTGAA CCGGTGAAG GCCTCTCGGA
GTACACAGGA GCTCCACCG GAGCTGCTCA TGAACACAG AAGGGGCTT GTGTGGACA GCAAGCCAGA GCTGCAGCT
GTCCTAGAGC ACCGCGGCG GAACAGCTC ATCAAGAAGA AGAAGGAGGA GCTGGAAGCC AAAGCGGCTG CAGTGCCCT
TTGAGCAGGA GCTGCTGAGA CGSCAGCAGA GGCTGAACCA GCTGGAAAA CCACAGAGA AGGAAGAGGT TCACGCCCC
GAGTTTATTA AGTCAAGGA AACCTTCGGA GATTTCACA CTGACGAG AGAGAGAGAG CTTTAGGGCC A

SEQ ID NO:129: (Length of Sequence = 186 Nucleotides)

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GCCTTTAACA TCCTCTGCCA ATRACTGGCC TCAAATCACC AGTGGAACTT TTTCAAAAAA TACACCATTG GCTCTATGTA
GTTCTACTGA TCTRAAATAT CCACGTGTGG GCCAGGAGCA CTGGCTCATG CCTGTAATCC CAGCATCTTG GGAGAGCGAG
GAAGGAGGAT CATTTRAGCC CAGGAG.

SEQ ID NO:130: (Length of Sequence = 307 Nucleotides)

ATAAAATACT TAGGAATATA CCTAACCAAG AAGGTGAAAA ACCTCTCCAA GGAAAACTAT GAAACACTGC TGAAAGAAAT
CATAGACTAC ACAAATACAT TTCATGCTCA AGGATGGGTA GAATCAATAT TGTGAAAATG GCCATACTGC CAAAAGGGAT
CTWCAAATC AACGGTATCC CCATYAAATA CCACCATOMT TCTTTACAGG NITCGGAAAA GGAATTCTAA AATTCAATATG
GGACCCAAGA CGGGGGCCGC ATAGCCCATG GCCGGCTTAG SSWAAGGGA CAAATCTGGG AGGCCTT

SEQ ID NO:131: (Length of Sequence = 184 Nucleotides)

CCAGGTGGA TGGAGTGCA TGGCAGATC TCGGCTCACT TACCTCCC AGGTCAAGC AATTATCCTG TCTCAGCCTC
CTGAGTAGCC GGGATTACAG GCACGTGCCA CCACACCCAG CCAATTTTTG TATTTTTAGT AGAGACGGGG TTTCACCGTG
TTAGCCAGGA TGGTCTCAAT CTCC

SEQ ID NO:132: (Length of Sequence = 270 Nucleotides)

GCNGGAGGCG GTCGAGGSCC AGGAGCTATT CTACACGCC GAAATGGCTG ACCCCAAGTC AGAACIMTTC GMENAGACAG
CCAGGAGCAT TGAGAGCACC CTGGACGACC TCTTCCGGAA TTCAGACGTC AAGAAGGATT TCCGGAGTGT CCGCTTGCGG
GACCTGGGCG CCGGCAAATC CTTCCGNNC ATGTGGGATG TOCACTITAA CCCCACCACA GCCTTCAGGG CACCCGACGT
GGCCCGGGCC CTGCTCCGT AGATCCAGT

SEQ ID NO:133: (Length of Sequence = 529 Nucleotides)

CTTGCACTAC ATAGCATGT TATTACTGAT AGCTTTTATA ATCTGCCAAA TAACATAGAA TGTAGCCTCA AAAGGATGGT
CGAGGGTTCG CAATCTTTCT TTCTCCACCC AGTGGTGTGG AGCAACTCTG TGCCCTTAAAG AGGSCACCAT GGAAAGAAAC
AAAAAGGAAT CTCTTTCAA ATGCTGGAAA TTAGGCTTAG CTCACACTT TCAGGATAAA GACAACTGCA TCTAATTAAG
TCCACTCCAC ATTTCTTTGG ACTCTAAGTA TTCTGCACCT GAAGGCTAAA TTGAAGTGGC TCAGCCCTAT CTTTTTTGCC
ACATCTTTAA TTACAAATCT ATTTCTTCTT CCTTCTATTT ACTTCTCTTC TCTTAAGTAA GAAATGTGGG AAATGAGACT
GGCAGTTTGG TTTGTTTGCA TGTGGGTGTC CATTAGGGT CTCATCCTAT GGCCCTTTT GGAAATGTG CCTTCTACT
ACACACCTGG GAGGTTTCCC CAAGGCTCAA CCTTTTGTCT TCAGGTAAA

SEQ ID NO:134: (Length of Sequence = 437 Nucleotides)

GACGGTGGCG ACCGCTGCAC CGGGATGTG TCCTGCCACC AGAGGAGGTG TCGTGGCGG GGAGCAGAGG GCCTTTGTTT
CCCAGGTGAA GTGCGGCTT CTTCACCTT AGAGGTGCGT GTGTGGGTGG GGTGCTTGC TGTGAGGTT TATGCCGTGA
ACTGACAGCT GTCCCCAAG CCATGCTGGC AGTGTGTAGG TGTGTCGCG GCCACCGCAG AGGAATCCTC TGGGCTTCTG
TGGTTCAGT GGGGCCCAGC GCAGAGCTCC ATGAGTTGCT GAGCAGCCAG CCTTCAGCA TCTCCTGGGT TTTGGCAGCA
GGAGGCGTCC CCTGTGCAA TTCAGGGGCG CGTGGGGCT GGGGCACTC GTAGCAAGGT AAAGGAGCCC CTGCTCAGGC
CCTTGTGTC TCCCTTTCT TGCAAGAGGG GTAGACG

SEQ ID NO:135: (Length of Sequence = 534 Nucleotides)

GGCATGTTC TGGTGGGTGT GTACGCTCC CAGAAGACTG AATTATGTT AGGATCACTC GCAAGGCCTT GTGAAGGAGT
CTTACCTAAA ACAAAGAAA TATCAGGGAC TTTTGTGAC TATTTACAAC TCAGTTTAC ATTTAAATC AGGCAGTGT
AATATGCCAA GGTAGGGAAT GTCCCTTTT CAGAGTTGCG CAGGAGCTCC TGGCTGGAC ACCGAGAGGC AGGTGTGCGC

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TAAGGCCTCA CTCCCGGCTG TGAAGGTCTC TGATCACACA GAAGCAGCCC TGCCAGCCT GGGTCATTTC CTGTCCGCTT
 TTCTCTGTGA CCACAAGCAG CCCTGAACAA CCAGTATGTC TCTTCTTTCT CCAGATAGTG AAAAAGGGTG TCCAGATAAA
 CCCACCTAAG TGAAATGGGC CATCCTCTAA ACTGGGGTAC CTCACGACAC AGGTCTTAGG TAGGCTTTCC ACTTAATCTA
 ACTTGAGGCC TACAGGTACC CTGTAAAGTT AGTGGGGCTT GTCCTTGATT GTGG

SEQ ID NO:136: (Length of Sequence = 279 Nucleotides)

CAGTTTGGAC AAAGTAGCAT AGTGACTTIN TTCTACANT GACTTTOGGA GAAGTINGCA GTTCTGGCA AAGTGACGCT
 GGGCTGTTTG AAAAAGGCAA GCTTAGCCTA GGCTGCCATC TTAAACATT TOGAGGCTGT AGCTTCTCA GGATCCTTTG
 CCTGTGTTCT GGTGGCGGC AGTGCCCGT CTAACAGCTT TTAACCTGC ACTTAGTGCC TGAGCACCTA TGCTGTGAG
 AGATGCTAGA TACAGAACCC TGTCCTGTAC CAGTGGGG

SEQ ID NO:137: (Length of Sequence = 518 Nucleotides)

CAAATATTTA ATGGAGATCT TCCTGTGTGG TCTGTTATAT GTCATCCGT TTCTGGGTGG TTTAGGAGAA TCTGTACTAT
 TTCAGCATGT CCTCTCCAG CAGCAAAATG AAGAGGAGAA CTAAGTGTG CATTTAAAG GTTGGATTG CACTTTCCIT
 TCTCTAACA TATGCGAGTG GCCTCAACTT TTCCATACCA GCATGCATAA TGAATGGGTG CCCAGTGGTC ACTATCTAAC
 TGGTTGACTG AAAATCTTTC ACTGAGAAGA CGGCTTAGTA ATTCTGAATC TCCTTCACAG GCGCTTCGGT GGAGAGGAAA
 ATCATCTACC CACTGTGCTT CCTGTCTTC TGTGACACTG CTCATGCTTC TCTGCCAGTT TTTCTGTGTT AGGGTATTTG
 GATTTTGTAG TAGTCTGGAG CTCCTAGACC CAAGTATGGA TTTATACCC ACTTATCTAC CGATTGTGA TACTGAGGAT
 CCTATCCAAC AAAGGGTGA AATCCAGGAT CCGCCTTC

SEQ ID NO:138: (Length of Sequence = 266 Nucleotides)

GATTGCAAGC ATGANCCACT GCGCCAGTC GAGTGGTAAT ATGTMAAAG GAAACCTTTT TCTGAGCAGG TCTCAAAAGA
 GAGGTAAAA TACTGAGTAG ACCATMCTGT AAACAGATGT MCTGTATYC GGGCTTTCAT ATTCCATTTA TAAAGCACAG
 GCAGAGCTCA GAGTAGATTT AAYGTAACTC TGAAGGGCAC TAGGATTTTC AGAATGGTAA ATAAGCATTG GCTTCACCTT
 AAATYCAAAT CTGCATGGG CTTGTA

SEQ ID NO:139: (Length of Sequence = 341 Nucleotides)

ACCTCGCTCA CCGCTCTGAC CACCGACAG CAGAGCAAAG GATGCGGGAG TTGCTCTGTC TGCCCATCTA AGGGGACGTA
 GGCAGAGAAG CAAAGGCTC TGCTCTCCCT CCATCCATCC CGGTGTGCTG GCCCCAACGG AACAGGAGTC CTCAACTAT
 TGCTGCCAG AGACCCAATT TTAGGGACTG TAGTCTGCAT CTGGATGAGC TGGGCTGTAG ATTGAAGTCT CAGAAGCAGG
 GAAGGTTGGA AGGGGTAGGG TCCCAGAGCC CATGGAGTTA TTGCTGAGAA GATATGCAGG GGACACATTT CCCAGGGGCA
 GAGTAGAAGC CTTGGGCTT G

SEQ ID NO:140: (Length of Sequence = 234 Nucleotides)

GTGAAGGGAG TTGCAGAATC AAATTGCTAC ATAGGCCAAA CAAAAAGAA GGCTTTTTCA AAAACATTA AATTCACATG
 CAGTCTCAGA GACTATTTAG GCAAAGTTCA AGTTAGGAGC TTTTAGGATG TGGGANIAAA ACTTTAATKG GAGGGGAGGG
 CTGCTCTG GAGAAGGAAG AAGCCAGACT TGTTAGACAG TACTCTAAC TCCTAGCCCA GCCTAGCGTG CCT

SEQ ID NO:141: (Length of Sequence = 354 Nucleotides)

CAACTCAGGT TAGCACTGC AGGAAAACCT TCTTCATTT CACTGAATTT TAAAGAGAGA ATCCTGTCTC TATTTCTCAG
 AGAAACTTAG GTGAAAAGTA AAAGAGAGGC AAAATCTCTT TCCTTCATGA GATACFTTA TTTTATCTC TTTCTCTACT
 CATGTGCTTA ACTGGTGAAG TGATTCTGTA GAAATAGATC CTCTGATTG TGCATCTCAT TTCTTATGG CAACTACAAC

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AGGAGGAATC CAGCTGGAAA TGCCACTAAC CCCACATCCA GCACCTGAGA GAGGAAGCCA GTCGGAGCGC CGTGCTGGGC
TCACTCACTC TGGGCCTGCG CACTGGGGTT GTGG

SEQ ID NO:142: (Length of Sequence = 373 Nucleotides)

GTTTTTGCAA CACTTTTTTT TTAAGTTAIT GGGTGCAAAA TCCCAAACCA GGATATGIGT ATGTCGTGIGT GTTTATGTTT
TTNATTTGAC CCTCCCTCTT TTCAACCTAC CCCCTTTTAT ATCTAATGTA GAAAAAGCGA AATTGAATCT GGAAAGCAAA
CTGTTGTATA TAGTTGCGGT AACAAATCATG AAGAGAGAGC CGGGCTGTCC AGTTGTTTTT GAGACAGAGT CTCACTCTGT
TGCCCAAGCT GGAGTGCAGT AGCATGATCT TGGCTCACTG CAACCTCCCC CTCCTGGGT TTAGGCGATT CTCCTGCCCT
AGCCCTCCCA AAGTAGCTGG GATTACAGAC CGTACCACC ACAACTGGGC TAA

SEQ ID NO:143: (Length of Sequence = 262 Nucleotides)

CGCACCTCG GCCAGAGGCG GCTGCAGCAG CTGCTMCTT TTCCCTGCCG CCGCCTCTCC AGTCCCTTTT TTAATTACCA
CTCCMCTGC TGGGAACGGG CGAGAAAGAG GAGGAGCGA GAAACTCCCA CCGACCCACA GAGGGAGCAT GATTTCGGCA
ACTTCACCTA TCATTCTGAA ATGGGACCCC AAAATTTTGG AAATCCGGAC GCTAACAGTG GAAAGGCTGT TGGAGCCACT
TGTTACACAG GTGACTACAC TT

SEQ ID NO:144: (Length of Sequence = 384 Nucleotides)

GGAAAGCGG GACCCAAACA GTGTGCTGG GGAAATTTTT CCCTGTCCCC TTTGGAAGGC TGAGTGGGTG ATGCAGCACA
GGAACAAGGC TTGGAAGTCA GAGGTCTCAT CTTCCTGTA ACAAGCATA AAGGACTTGG GGTGTAGCGT GTGTNTGGGC
TCAAGTGACC ATGCAAGTCC TGTCACTCC TTCCTAAGAC CCCATCCTTC TCCCAAGTCC TCCACAAGAG CTACCTTCTT
CAAAACAATA ACAGAAACAC ATCAAGCTTG GGGTCACTG AATTCAGTT CTGATTTCTC CGTCACCCC AGCAACAGTG
CCAGTTTGA TTGTGACACT TTGACCCAGC ACTTGGTTTT GAATGTTCTT TTCGGCTGTG ACCG

SEQ ID NO:145: (Length of Sequence = 324 Nucleotides)

CTACATGGAA TCATAAGTGT TCCTAAAAA GGAAGACAGA TTGAAGACA GAGGAGGAAG GTGATGTGAT GATGGAAACA
AGGGGAGAAA ACGCAATGTG ATGTGGCCAC GAACCAAGTA ATGAGGACAG CCTACAGAAG CTGGTCAAGG CAAGGAAACA
GATTCTCCTC TAAAGTCCCT GGAGAGGGCC TGGCCATGCT GACACCTTGA TTTTCTCCA GCAGAAACTC ATTTTGGATT
TCTGGCCTCC CAGAAAAGTA AGGGGGTAAT GTGCTGTTTT ATGTCAGGTT TKGGGTAATT TGTTTATGTC AGCCATCGGG
AAGG

SEQ ID NO:146: (Length of Sequence = 355 Nucleotides)

TTTGCTCCT TCCTTCTTA TCCAGCAAG GGTTGGTGA CAATGACCTG ATCGGGGTTT AACGCCGCT CTGTCTGCTC
ACCAGACCTG GGGTGTGAG CTCTGACCAG CCTGGGCAGC CCAACCCACA GGAAGTGGG TTTCATAGCT GGGTCTCAG
GAAGGGGTGG AGGCTTTGGG AGTGGCAGCT CCGGCTCC CACCACCCA AGCCAGAGAA TGGGGCAAAC TTGTATGCAT
GGCTTATCTC TAAATTACTA ATCTGCTTCG GACCAGACTC ATCTCTACAG TATAGAGTTA GAGTTATTGC TTCTATGACA
GGTGTCCAG AAGCCCTGGG TGGCTTTAA GTCTG

SEQ ID NO:147: (Length of Sequence = 337 Nucleotides)

CAGTTTTCTG AGTTCCCGTG TGCTAGACTG GCCAGAAGAG AGGGTCTGGG GCCTGGTCAC TCGGCCACTC TCTCCTGTTT
CTGGCCTCTT CTCCCTTCAC TCCGTCAG TCTGGTTTGG AGAGCAGGGG CTGTCTTACA GCACCTCAGG GAAGGGAGGA
GAGATACCTG CTGCTTCAT TGCTTTTCCC TTCTGGAGT CGATGCCTTT CTAAGGGTGG GAGCTGCTCC TTGCAGGGGC

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GGGTGAGTTT CCCAGGCCAT GCCGGGGTG GCCATCTATG CTAGGGCTGG AAGCTGAGGC TGGCCGCCAA CTGTGGGGCT
GGGGTGGGGG TGGGTGG

SEQ ID NO:148: (Length of Sequence = 278 Nucleotides)

GGAATCAGAT GCTCAGGTGT CCAAGCAGGG ATAAGGACAG GCAAAATAAA TAACCCGCCC AACCCCATC GTCACCTCTGC
TGCAACACGA CACAAAGGTT TAAAGATCTG GGCCCAAAGA CTCTGGGACC CTTCAAGCAA GTCAGGTGGA AGAAGGTTTC
CCCACCCCC ACCAGGCTG TTTGTCCAG GTTGCCCTAG GATGGAGGCA GTTCAGACCC TGGGTCACTG ATGCTTGATA
GGAAGATCTT TGATATCAAT GGCCTAAGCT CTGCTCAT

SEQ ID NO:149: (Length of Sequence = 368 Nucleotides)

TTTTTTTTTT GTTTTCAACA AACTTTACTA AATAACCCCTG GAAAGGCAAT GAACGATCTG ACAATTTAAG CTCTAATGAT
TTAAGCTCA GCTAGAAGAA AGTGAGCAT GACATATACT GTCAACGGAG GGTGAAGGAG GCAGATTCTT GGAAATGCAA
TGATCCACA CAITTTGCTTC AAGGAGAAAC CTGCAGACAT ATTTTCAGGT CTGCTAAGT AACAACTGTT TATTGTGAAT
CAATACATTT GGGGAAAGTC TGCTATGTAG CTAAGGTAC TGTAACACA GACCAACAGA TGGAAAGGAA AAAGGCACTG
GACCAGCAAG GAAAAATACA TCCCCATCCT CAAAAGAAAT TTAAGGTG

SEQ ID NO:150: (Length of Sequence = 367 Nucleotides)

TTGTGAAATG GGCCTGGGTA GATAAGGAAA AGAAGCTCCA AGAGGTTAAG TGATTGCGG ATTTGCCTAA ATTATACAGA
AGAGTCAGCA CCAGTGCCCA GGCTTCTGA TTCTAGTGC AGTAAACACT AAGCACCATC ATTCCATTTC ACCACACTCC
TGCTTGCTG TTGTCTCAG CTAAGAAAGC CTACCCCTGA GTTACCCCTCT TCCATCTTAG AGCCTTCCTG CTCGCTGTCT
GCCCCCTGC GATGGGGACT TCTTTGGCCC TTCTACCCA GCCAGCCTC TGCCCGTTTT CCTTCTCCTT TCCACTGCGG
CTGAGCTCTT TTTCTCTCC GAGAAGCCTT TCCATCATCT TTCTGG

SEQ ID NO:151: (Length of Sequence = 366 Nucleotides)

CCCAGCGGC CGCTCCCTC CTCCTCCTC CATAGGTGGG GGTGTGGGC CTTCTTTTT TTTTGTCTT GGAGGGCAGT
TAAACTTCTC CATTTGCCTC TCTCTCACA CCCAAATGCC AAAGGACACT TTTCCCTTCT TTTGTGGGTA GTTGCAAAAA
AAAAAATTC CTATGGGTTA CTGCCACTTT TAAATACTTT GTAACTTAAA GSCAAAGTAG TATGTCACCTG TTTCTTTTCC
CTGTAGTTTA CTTTGTAGGT TAAACATCTT TCCATGCTT TATTGGTCAA ATACAGTTCC TYCTTTTGTA CAATGTTAAT
CCTAATATGG ACCATTTTTC CTAATGGGAT TACCGATTTT TTAAAA

SEQ ID NO:152: (Length of Sequence = 269 Nucleotides)

GTATTTCTGG CAAGTGCTTT CAGGGCCCTC CAGGGTTTGG CTGGTCACCA TGGAGGGGG GTTCAGGTGC TGAATTTAGG
GACCCAGCA TCTCAGAGT TTCCCTTCC ATCTTTCCA GTGGCACTGT GTCTGAGCAG GTGTGCCAG GTGAGGTGT
ATCCACTGTG TCTGAGCAGG TGTCGCCAGG TGAGGTGTGA TCCACTGTGT GTGAGCAGGT GTGGCTGTG CAGGTGGAAG
TGGGATATN TGGGCACCTG GTGCCATT

SEQ ID NO:153: (Length of Sequence = 260 Nucleotides)

TTTCAGGATT TTATTAAAA TTATTGTAA TGGGGTCCGC GCAAAAGGAA GGGGTGGAGG GTGGGTACA TGCAGGGGAC
ACAGGAACAN GATCCACATG GCCAGGNC AACTTCTTC TGTCGTGGG AAGAGGGATG AAAAGACAAG ACCAGGGCTA
NGAGCTGGG TGGAGAGGG GAGGGGNAAC ACTGGCTGCA TTCCCNAAAC CCCANGANG ACCTATAGGC CCTGGACCA
TGGGTACCC TGGGCCCTAG

SEQ ID NO:154: (Length of Sequence = 405 Nucleotides)

TGGAACITGT GAGTGGGGAC CCATGATGTA TGGGTCTCAC CTGACTTGAG GTGAATTTTG GAGTGAAGGG CCCTGAGGTC
AGCTCCCAGG TCGGTCGTGC TGGGCCAGGC CTGGTTTICA CAGGGGCTGA AGGATCCCAG TCCACCTGTG TGCATGTCAG
GGCTCGGCCG GGAAGAAGCC AGCAAAGTCC CCGGTGTCCC TTGCTGAGTA TTCTGTCACA GACAAGCCTC CATTAAAGCC
ACAGCAGTGC TACCCACCAC ACACACCTTG CTGGCCCGGC CACCACTGCT GGCTTCAGCC CCTTNAGCAG CCCATGGNTT
AGCAGACCTT CAGATGTAGG TCAGTGGCCT TANCTGTNTC TATCCATGCT GTTAAACTCC CTGCTCCAA CTGGGGGTCA
CCAGT

SEQ ID NO:155: (Length of Sequence = 40 Nucleotides)

CCATGATCTT ATTTATTACA TCTAGTTTTT CTTTATACCT CTAAAAAAA GTGCCTTTTA GATTTACAGC TTGTGCTTCT
AAAGCAAAGG TTAACACATC ATGCCCAA GGAACAAG GTAAAAAGGA AGCTGCCATA TAAGCTCTTA AAANTGTAT
GTACAAGGT TCTAAATCT CTTCACTACT GGTGGTTGG TAGATTGTAC GACACTGACA TGGTGTCTGG GAGGGTCATT
TATCTGATGG TTGGAGCAGC ACCATGGGAA AGCTGCCAG ATGGTCTACT GAAGTCTTG GCTGTGCACA GAATGGGCC
AAGGGCCAGN AATTCATGAG TCCGGGAAC TTGGNGGTC CTACTCAAT CTCCTTAGTG CTAAAGNTC AGAGTCTCAA

SEQ ID NO:156: (Length of Sequence = 443 Nucleotides)

GTCTCTGGA TTGCTTCGTT GGTTCGAAC TTAAAGAATG GCAAACTGTG ATTGGNTCCG ATTAAGACAA GCTTTGTAGT
TTTCTTCGTG TAAACACCAA ATCCCGCCTG GGCCATGAGG TAGCAGAAGT GGGCCGCATC CAAGAGGCC CTTGAAGCCA
GAGTGTCCGC CATGGTAGCC ATCGTCTCG ACTCGACGTC CATGTTGTG TTCAAGTTGG ACAAGACCAT GCGAGGTGC
GGCTTCAAT CTCCCATT CTGCTCTCA CAGCAGTGG ACGCGGCAG CATCCGTCC GACATGAGCT GGTAGACTGT
CTTCAGAGGG TCGTTGATTG GGGAGGCTTT TTAGCAAACC TKGGTCATGA CTCGGGCGTG TGTCGGGCTG TTCCATCTTA
CTTGCAAGTA GCAGAGCGTG ACCCCACAAG GCCATTCTTA ATT

SEQ ID NO:157: (Length of Sequence = 383 Nucleotides)

ATTGGAAGG GTTTTAAAG GAGTCGAAC CTGAGTAGAT TTCCAAATTT TACAGCCAGG ACTACAGAAG TGCATCATT
TAGAATGTGT AGACCTGAGT AGCTTATACA CTACAGACCA CTTTGCTTAT TTGAAAGTAA TTCAGCAACA GGTCACCTTG
GGATATAACC TGAACCTTTT TTTGGAGTGG GGTGGGTAGA CTACAGTACA CACAAGGGCT GGACATGCAG ATGCTTAGGG
GATTAGCGTT TTTCATAATT TGTTCGTGTT GTCAGTTCAT TCCTGTGTGT TCTTACCTCT ACAAGGTAC ATTACACATT
TTARGTTTTT TAGTGACCTT TAACCATGTT ACTTGAAGCA TTTTGAATA TAAAGCTATT TTA

SEQ ID NO:158: (Length of Sequence = 241 Nucleotides)

TGGTSTGTGG CTCAGCTGCA GCGGCAGTA AGTGGGTSTC CAGGGGAGTG GACAAGCAAT TCTCTGTCA TTTGCAACTT
TCTTCAGGAA CTCAGATAAA GAACACTTGG ATAACGATGA TCCCTGTAGA GGGATTTCAT CTGTACCATC ACACATGGAA
GAGGAGTTTC TAGGTCAGGA AAGGCAGCTN CTAAGCTAAA GGTTCCTTGG TCCCTTNGTC CTGGCATGCC TTAAGGAGGG
G

SEQ ID NO:159: (Length of Sequence = 224 Nucleotides)

CTGTCAGTAA TGGCTCACTA AAGGGCCAGC AGTTTAAATT ACACAGGTG CACTAAAAGC TGCAGCTTTG GCCAGGCAAG
GTGGATCAGC CCTATAATCC CAACACTTTG GGAGGCCGAG GCGGGCAAAT CACCTGAGGT CAGGAGTTCA AGACCAGCCT
GGCCAATATG GTGAAACCTA AGCCTCTACT AAAATTACAG AAATTAGCCG GTCGTGGTGG CACA

SEQ ID NO:160: (Length of Sequence = 377 Nucleotides)

137

GGAGGCTGAG GCGGGCGGAT CACGAGGTTA GGAGATGGAG ACCATCCTGG CTAACACAGT GAAACCCCTGT CTGTACTAAA
 GATACAGAAA ACTGGCCCGG CGTGGTGGTG GGTGCCCTGTA GTCCCGAGCTA CTTGGGAAC TGGGAGGCTG AGGCAGGAGA
 ATGACCTGAA CCGGGGAGGC GGAGCTTGCA GTGAGCAGAG ATTGCGCCAT TGCCTCCAG CCTGGGCGAC AGAGTAAGAC
 TGTCTCCAAA AAAAAAAAAA ATAATAATCA AAGCTCTTGG ATTTATAGTT TGGTCCCAG CCTGTGTTTG ATCTTTCCTT
 TATCCTGTTT TATTGCCATT TACCACGTCC TTTTGGAAAC ATCCCTTTCA ACTGCTG

SEQ ID NO:161: (Length of Sequence = 273 Nucleotides)

GCAGCGGCGC CCGGCGAGGA GCGGCGAGG GCGAGGAGG GCGGCGGGT GCGGACCGC AGGAGGCCAA GCCCCAGGAG
 GCGGCTGTG CGCCAGAGAA GCGGCGGCC AGCGACGAGA CCAAGGCGC CGAGGAGCCC AGCAAGGTGG AGGAGAAAAA
 GGCGAGGAG GCGGTGGCA GCTCGCGCT GCTAGGCCCC CTTCGCGCG GCGGCGCGC CCGCGGAGC AAGGAGGCAG
 CCGCGCGGA GGAGCCCGC GNCGCCGAG ACT

SEQ ID NO:162: (Length of Sequence = 286 Nucleotides)

TTTGGTCAA ATAAATCAGA GTACTACAAT CATCAACAT CTGAITCAIT TAACATGIGA GCATCTATAC CTGCCCATT
 GTGTGAATAT TCAGTATATA TCTCATACCT ATTCTCATGC CTTCATTTAT TGTGGTTATG GCTGTAGATA TGGAAAAAC
 AGTAGCTGAG ACATTTTAT TATGAATAT ATTATACCTT AATCAATCAG TCAGAAATG CTTAGGAAGA AGAATGCAT
 GATTGTAAAT GCATGATTTC AACATGCTAC CCGCCAACA AAGTTG

SEQ ID NO:163: (Length of Sequence = 342 Nucleotides)

TGCCAAGGA AGACAGAACA TGGAGAACG TCAAGGCAGG AACCCACAG ACTGTCCCTT CCAGCCCACA CTCTGCCACC
 TCCTGGCCCT GTCCCAATTC TGAGCCAAGG CTTCCCGAG GCAGAAGTTG CTTGGTCTC TGTCCCCACA GTGACCTGAC
 TGGGGTGAG GGAGAAGGAG GAGAGAGCCC ATGTGTGGTG TGTGTGCCCC TGAGAATTC GTGGTAGCTG CCTTTGGGAG
 CCGCAAGTG GCCAGAGGCA GGGGTAGCTG AGTTCCTGGG AGACCCCTTT TTTTCCCCA RGTTCCCAG AGGGCAACGC
 CATCAGTAGC AGTGTGGTGT TT

SEQ ID NO:164: (Length of Sequence = 392 Nucleotides)

ATTACCCGGG CCGGCTCC CTAAACAGA TCTACGGACC TTAACCGACG CATGCTGAG GCTCATTTCA TCCTGCRGA
 CGTATGCAGA GCGCTCACT GCTGCCATGG TGGAGTTCTA CACCATGTTA GGAGGAATTC ACCCAGGATA CACAACCTCA
 CTATATCTAT TCACCCGCTG AAATGACTAG GTGGGTGAGA GGCATCTTTG AAGCGCTGAG ACCTCTGGAG ACCCTGCTG
 TTGAAGGCCT CCTTCGGATT TGGGCACATG AAGCTCTGCG TCTCTTCCA GATAGACTCG TAGGGGATGA GGAGAGGCGT
 TGGGACTGAA TGAGAAGATC GACACGGTTG CTCTGAAGG CACTTTCCCT AACCTTCGCG AGAGAGGAGG GC

SEQ ID NO:165: (Length of Sequence = 406 Nucleotides)

GTTATAATTA TCTGTGTTA TTATTATTG TTTATCTCT ACTGTGATA ATGTAGAAAT TAACTTTAC CATAGGTATA
 TACATATTGG AAAAAGCATC TTATATACAG GGTGTGTTAC TATCTGTGGT TTCAGGCATC CACTGGGGT CTGGAACAT
 ATCCCTTGCA GATAAGAGG AACTGCTGTA TCCATAGAAT AAAACACCC CATCTTGAAG ATAGGAGGTT CTGTAAATTG
 GGATGGGGTC AGGGAATCTG AATTTTAAAA GTTTCCTATG TGATTTGATG CCCAGCCAAG GGCTGGGGAC CACTGTCTTG
 AAATATAATG CTGAGGAAGA TACTGTCTT GGATTTTCT GTTAATTCG AGTGCAAAT CTAGGCTGG AACCTTATGG
 GCCTTG

SEQ ID NO:166: (Length of Sequence = 453 Nucleotides)

138

GAAACTTTG CCATGGGTCA GTTTTATTGG AAGTTCATTT TCCTGAATGT TTGGAAGAAA GTCTAGTGAC TCAGGATAGC
 ATTTCTAATT TCACAGAGTT ATTTTTCCTG TATGAAACAC AGATTGCCTT TGAGGTCTCC TGTTTCTACT ACTGCCCCTC
 ACTTTTATGT GGGCCTCCTC TTTCCTTTGT TTCTGGAGAA CCTTTTCCTG TTCAATTCTG TTTTAATTTT CAGCAGTTTT
 TTTTCTGTGT GAGTGAGGCT GTTTCCTAGC AGGGAGGTCT GGTGATCAT TTCAAGTTC ATCAGGGCTT CATCAGGGCT
 TGTCACATTC AACCCCTACG CTATAGGNCC CTNTGCACCA TCTGCANTCT TCAAAATGTG CCCACTGGTT CGTTCCCATG
 GAGGGCTTGT TGGTAATTTG GGCTTTTAGG GGGGGCCATG GAAGGAGCAA ATC

SEQ ID NO:167: (Length of Sequence = 285 Nucleotides)

TTTACTCTTA AAACGTGTAC AACAGAATCA TGGACTGACA CAGGTAATGG CTGAGCCATA AGCAAATCGA GAAGTACAGA
 AATGTCCAC CCCAAACAGC TGCGGAGTAC ACATCACACA GGGCCTCTGG TCCCGGCCTT CTCAGGTGCT CTGGAGTGA
 GGATCCTTTG AGGGAACCTT GACCACTCCT GTTGTCTACC TAGAGAGCAC GCCACTTGGG CCACCTACCC CCAACCTTTG
 GCCAAAGGAG TGAAAGGACC TGAACCTGT CGTCAACCTC AGCAT

SEQ ID NO:168: (Length of Sequence = 327 Nucleotides)

CTAGAGGGCA CTCTGTATAC CCGTCAGCTC CTGGAGCCAT TCATTCTATG CTGGGCAGAC AGGCTGTGAG AGGACATGGG
 GGACGGTGA AAGGNTCCA AGACGAAGCT GTNGTTTATC CTGTGTGGT TTACACAGGG AATGATGAAA CATTGAAGGG
 GTTTAATAAG CTTTTCCTAA AACATTTTCC CCTTAAACAG GCTGGCACTA TGTCGAAGCT GCCCAAATTT GAGATTGATT
 TACCAGCTGC GNCTAAGTCA ACTAAACCCA NGCCTTTCCG AAAGAGACAT CGCAANTGGC TTACCCAANG TANTGTCCCG
 TTTTCAG

SEQ ID NO:169: (Length of Sequence = 346 Nucleotides)

GGTCTATGG AGAGCCCGCC GTCCCTCAGG GGTGAGCTGG GGAGGCTTCT GCGGTTCTGG AGTCCCGGCG ATGGCGCCAG
 TTCCCCAGCA AACCCCTCC AGAGCTGCC COGGATGCAC AGACAAGGAG GGGGCTTGGG AGTGACTTGA GGCTGTGAGC
 GGTGCGCCT CGGTGTGGC AAGTGAGTCC TCTGTGGCCA AGAGGTGAGA GTCTCCCTG AGGCTGAGTC GAACACAGAC
 CCGTGGCCCT CATAAATTA AACATAAAG CACAAAATG GCGCAACCA GACAGCATTG GCTTTCAGAC AGGCAGGGAC
 ACGGGGGCC CTCTGTGTG ACCTGT

SEQ ID NO:170: (Length of Sequence = 398 Nucleotides)

TTGACCTCAA CTACTGAGC AATGCCGTAG CTATGGAATA GAAGCATTTG TTGCACTCTT TTGTGTAGCC AGGCCCTGTA
 GGAGGGATTG TGATGGCAA AACCTCAGGT TCTGCCCAA TCCTCCCTT GGGGGCTGGA GGGTCTCTAG TTAATTGGCA
 TTCCGGTGT TAAGCCACT TTGGGTAGA GGTGTGGCAA GGATGGAGTG TCCAGACCTA TGATCCTCTA AGAACTTTAC
 CTTTTAAAA CAGCCACCA AATGGTGGTG GCGTGGGAG CAGGTGGTGG TGAAGGGACT GGGGGTGTCT GGCCATKGCC
 ACGTACCAGA GGAGACTCTG TGAGCCCTCT CCTGCTGA GGGACACTTA ACTTTTATAG CACTACATAG GGTCAACG

SEQ ID NO:171: (Length of Sequence = 321 Nucleotides)

AGACAGCATC TGGCTCTGTC ACCCAGGCTG GAGTGCAGTG GCGCAATCTC GGTTCATGC AACCTCTGCC TTCCAGGTTT
 AAGTGATTCT CTGCTCAG CCTCCAAAT AGCTGGGATT ACAGGCATGT GCCACCATAC CCAGCTAATT TTGTATTTT
 CAGCAGAGAC GGGGTTTAC CATGTTGGCC AGACTGGTCT CGAACTCTG ACCTCAAATG ATCTGCCCAT CTAGGCCTCC
 AAAAGTGCTG GGATTATAGG TGTAGCCAC TGCGCTGCG CCTTGGGTAA ACACITCAA TGCAACCAAC CATTAAAGGT
 A

SEQ ID NO:172: (Length of Sequence = 293 Nucleotides)

139

GAAACTTATA GTCTTGCCCTC CCAACCTTCT GAACACTCCA GTAGAAAAAT CTTCTCGCCT ACCTTTATCA CCCCACGACC
TACTAGCATT TCTTACTCTC AAAAAAATC TTTTCTGAAA AATCAAGACA GAGTGCAAAC AATCAGCATA ATTTTATTAT
GACARAACIT TTAATTTTA TCCCCCTCTC TGAGAGTCT GCTAGGACTC CTTGAGATAA GTGAAAAGA AAKTTTTTAA
AATTIATCT CAAATCCGAA TTCCAATCTG TATAAAAAGG GCGATTCTCC CTC

SEQ ID NO:173: (Length of Sequence = 282 Nucleotides)

GCTTGGTCCC GTTCTCAGG AAAAGGATGG ACCTTCTCTT CTTCTCAGAT GGTCCCTTCC ATTCCCTGA AACCTGCATG
AGAGCTCCTA ACATGTTTCT CCAATGCAAT CAAGCCTAGA CTCCAAATGT CTTCCAGCT CACCTCCATC TATGCATCTC
ATCTCTGGAT TTGGTGATCA GACTCTATAT TGACAGTAGG ATCTCAAACC CTGCATCCAT CCTTCTTCCA GCAAGCCCTG
CTAGCCACAT GAGGAACAAG TTTCCGTGTC TTCATGACTT CC

SEQ ID NO:174: (Length of Sequence = 353 Nucleotides)

CAAGAGGTGG GAGAGGTAGG GGGCAACTAC AGCTCCCCAC CAGCCCCACC AGGGGGGAATG GACCCCTCCC TGCCTCCTGC
CCAGTGGCT CCCCCTGTAT TATGGGGGGG ACTTTGTGCA AACTCTGCC CAGAGGGGTG GGGAGGGTGG AGGGTGAGTG
TGAAATGCCA GCGGTGGGG CTGGCAGCTG TGCTACTGGG CACTGGGGGG CTGTAGGGC TCCAGGAGGA GGGCCGAGAA
GGTGTGACC TTGTCTGCC CCCGACCTC ATGGGGTAAC AGCGGCAMIT TCACGATGTG GAAGTTCTTC ATACAGGTCC
TCCAATCTGG TCCAGATACT TGGCCTGGGT TCT

SEQ ID NO:175: (Length of Sequence = 394 Nucleotides)

GCCCATGCCC TTGTGTACAT AATCTCTAAT ATTTATATAT ATTGATATAG AATTCTCTCT ATAATATATG TCATAGAATC
TCTCTTGGC CTGGCGTGGG AATGTGACAT TAAGAAAACA TGCTAAGACT GGCCAGAAAA ATGGATATTT CCCAGACCTG
GAGGATGGTG TGTTGGGATGT ATAGGTGAGG TCGTGGAGAA GATAATAAAC TCATTCCCA AGATACCTC TTCAACACAA
GGACAAGAAG GAAGGTGTGT GGTGGGGGAG GGGACAATGG AGGGGGAGGA GTGGAAGATT TGGATTTTCA TTTAATAAAG
TCAATTGAAA AATGAAAGTG CACCCCCCT CCAAAAACA GGAGATTCTT TTAGCAAGAG CCGTTTCATT CACA

SEQ ID NO:177: (Length of Sequence = 381 Nucleotides)

ATTGGGACGG GCCCCCTCT GAGGCGACGG ATGATAAGC TTGATATCGA ATTCTTGAT NTTTTCTAGT GTTATGGTTT
TCTCCACTC CAATAACTWT TCATACCTKT GGCTKAGTT TTCCATCTA TAAATCATG TGCTAAATAA TTAATATCA
TCTCTATCAT TGTCAGACTA CACAAAGCTT CCAGCCTGGG CAACAGGAAC CCTGTCTCTA AAAAAATAC AAACATTAGC
CAGGTGTGGT GGTATGCGCC TGTATTCCCA GCTACTTGGG AGGCTGAGGT GGTAGGACTA CTGGGCTTT AGAGGTCAAG
GCTGCAAGTG AGCTGTGATT GCGCCACTGC ACTCCAGCCT GGGCAACAGG GCAAGACCCT G

SEQ ID NO:178: (Length of Sequence = 443 Nucleotides)

GATTTTATTC AAACACAGGC AAGAACAATG ACCTTCAGAG CTGGGTAAAA ATAATAAGTT AAAAGCATGG TTAGAATTTT
AGACAATCAG ATAAAAAGTT TGAAGGAAGT GATTTCCCTT TCCTCTCTA ATTGATTAAT TCAACACAGC ATAAAAATAA
TTTGTATCTA TAAATATCC TTGTCCAC ACAATGAAC TGGAGGTGGC CCTAGGATTT CTTGACTAT GCACAATGCA
CACAACTAC ATGTCCCTCC TCCCACCTT TTAAGGCAAA AATGGTCTG CATCTTCAGG CAGAGGTGG GCTCATGCCA
GCACTCAGCT GTGGTCAAGG AACTGGGGG TGCGTTTCT CCACGAAAG ATGCCTGCTT TGGGTCCACT TGGGGCGGG
GATCCATTT TATTTTCTAG CCTGTGCTC ACCACAGGA AAA

SEQ ID NO:179: (Length of Sequence = 325 Nucleotides)

140

TGGGGGACCA GCATTGCTCC CAGCTGAGGG CGCGTCTTTC CTCACCAAGT ACCGGGTCAT CTTACGGGG ATGCCCCAGG
 ACCCCCTGGT TGGGGAGCAG GTGGTGGTCC GCTCCTTCCC GGTGGCTGCG CTGACCAAGG AGAAGCGCAT CAMCKTCCAG
 ACCCCTGTGG ACCAGCTCTT GCAGGACGGG CTCAGCTGC GCTCCTGCAC ATTCCAGCTG CTGAAAATGG CCTTTGACGA
 GGAGGTGGGG TCTTACAGCG CCGAGCTCTT TCCGTAAGCA GCTGCATAAG CTGCGGTAC CCGCCGGACA ATCATGGCCA
 ACTTT

SEQ ID NO:180: (Length of Sequence = 213 Nucleotides)

GAGCATGCC CCGAGTCCC CAAGATCCTG GTGGGGAACC GCCTGCACCT GGCGTTCAAG CGGCAGGTGC CCACGGAGCA
 GGCCAGGCC TACGCCGAGC GCCTGNGCT GACCTTTTTT TAGGTCAGCC CTCCTTGCAA TTTCACATC ACAGAGTCGT
 TCACGGAGCT GGCCAGGTTC GTCCTGCTGC GGCATGGGAT GGACCGGCTC TTG

SEQ ID NO:181: (Length of Sequence = 219 Nucleotides)

AGCTTTATCA CATTATACAC AAACATAGAA AACAGTGTTC CAGAAGAGAA GCAAAGGCCA TTGGCTTCAA ATATTTATGC
 AACAATGAAA ATGTTCTCAG CCCTTAAATG AGCACTGTG ACTGTGTCAG CAGTGAGATA ACTAGTCAAT GGAAGAGTTC
 AACACTAGAG CATGTATCTC AGTCTGTCT CATATTGCTA TAAAGGGCTS CCTCAGACT

SEQ ID NO:182: (Length of Sequence = 451 Nucleotides)

GTCTTACTCT GTTACCCAGG CTGGAATGCA GTGGTGTGAT CATAGCTCAT TGCAACCTCT GCCCTCTAGG CTCAGTGTAT
 CCTCCACCT CAGCCTCCCG AGTAGCTGG ACTACACGTA CATGCCACCA TGCCAGCTA ATTTTGTAT TTTTGGTAGA
 GACGGGGTTT TGCCATGTTG ACTAGGCTGG TCTTGAATC GTGAGCTCAA GTGATCTGCC TGCTCGGCC TCCCAAAGTG
 CTGGGATTAC AAGCGTGAGT CATGGTGCTT GGCTAGTTT GCTCTTATTT TTTTCCATC TTTGAGTTT CTAGGCCACT
 GGAACAGGC TGCAAGCTC AGAGTCCACA GCTGTGAGGC TCCATGTGC ACCATCAAAA AATAAGGTGA CGAGAGTCTT
 GGGTTCCCA GTGTACGGC AAGAGGGTT ACTGCTCAG GGTACACACA G

SEQ ID NO:183: (Length of Sequence = 444 Nucleotides)

CCAAGTTGAC CCGCGAACC ACCGAC-GGA AGAGTGAGT CCGTAAACT CTGAAGGATG ACCGGAATGG AGACTTCTCA
 GAGAATAGAG ACTGTGACAA GCTGGAAGAT TTGGAGGACA ACAGCACACC TGAACCAAG GAAAATGGG AGGAAGGCTG
 TCATCAAAAT GGCTTGCCC TCCCTGTAGT GGAAGAAGG GAGGTCTCT CACTCTCT AGAAGCAGAG CACAGGTAT
 TGAAAGCTAT GGGTTGGCAG GAATATCCTG AAAATGATGA GAATTGCTT CCCCTCAGAG AGGATGAGCT CAAAGAGTTC
 CACATGAAGA CAGAGCAGCT GAGAAGAAAT GGCTTGGGA AGAATGGCTT CTGCAAGAGC CGCAGTTCCA GTCTGTCTC
 CCCTTGGAGA GCACCTGCAA GCAGAGTTG AGGCTCAGCA CCGA

SEQ ID NO:184: (Length of Sequence = 399 Nucleotides)

GGCAGAAAGA GGAAGGAGAC AGTGCCAGGA GGAAGAAGGA AGGAGTCCCT TAGCTCTCTT CATTGTCCCC TTTACTTCCT
 GCTATCTTCT TCTCTCTTC TTCTCTCTT TGCCINIATG CTTGTATTC TGGCAATATG ACAGGCTGC CTACCCAAGA
 TCAGAACTCC AAAACCACTC CCACCCCTGA AGGTGGGAG GGCTTAGCA GCGCTGGTG GCTGCTGTG CTCAGGTCTT
 CAGTCCATG GGAAATAAAA ATGGCACCTT GAATCTCTAG GATTTGTCA CTTTGGAGTC ACAGCAAAGT TCTCTCTC
 TTGTCCCCC GTTGTCTCT CTTGGGTA TAGGACATG TAAATATTA TTAATTTCAG GGAACCAAGT TTTTATTAG

SEQ ID NO:185: (Length of Sequence = 263 Nucleotides)

CAGAGACACT GGCCAGCTA TTTTCAGCAG GGACAGAGTC GAGGCTCACT GGGGATGGCT TCAGAGGACA CTGAGGCCCC
 TCTCAGGGAG GGCAAGGCAC AGATACCCCA AATTCCACCC CACGTCCCAA AGGTCTCCA GCGGGGCTGT CCAGTCCATG

141

TCAGCAGAAG GCTCTTGGGC GTGTGAGGGA GGGTCTTGGA GAACTAAGCG AAGGAGGCAA ACGCCAGGGC
CCCTGCGAGGCACC ATGTGCACCA CTT

SEQ ID NO:186: (Length of Sequence = 343 Nucleotides)

GTTCCAATAG CTGGTTTTAT TCTCAGCACA AAAGGGCCCT GTGTAAAAAC CAGAAGGATT TTGTAAAATA TCAAAATGAA
TATTTGGCCT GGAGGTTTGA AAGTGAAGCA AGGCTGGACA TAGAAAAAAA CTGATCAGTA GTTATTCAGG ATATTATTTA
GGATAAATGA AATAGGAACT TAGGGGCATC TCTTACTTTT CTACAGGTTT TTATCTGGGT CAATGAAGAA ATTGIGTTTA
TCTTGCTGCC CTTCATCAG GTTTTGTGCA CTAATGGAAA AAAGCCGGCC GAAAAACAAA ACCCAATCCT TTCAGTCCTA
GCTTTTACAT CTGCCCCTG CAA

SEQ ID NO:187: (Length of Sequence = 229 Nucleotides)

GGTGCGGCTC CACCCCTTCC ACGTCATCCG CATCAACAAG ATGTTGTCTT GTGCTGGGGC TGACAGGCTN CAAACAGGCA
TGCGAGGTGC CTTTGGAAAG CCCCAGGGCA CTGTGGCCAG GGTTACATT GGCCAAGTTA TCATGTCCAT CCGCACCAAG
CTGCAGACA AGGAGCATGT GATTGAGGCC CTGCGCAGG CCAAGTTCAA GTTTCCTGSC CGCCAGAAG

SEQ ID NO:188: (Length of Sequence = 284 Nucleotides)

CCAGCAACTC AATTTCACCA CCTCGGACTC CTGCGACCGC ATCAAGACG AATTTCAGCT ACTGCAAGCT CAGTACCACA
GCCTCAAGCT CGAWTGTNAC AAGTTGGCCA GTGAGAAGTC AGAGATGCAG CTKTCACTATK TGATGTACTA CGAGAKGTCC
TAGCGCTTGA CCATCGAGAT GCACAAACAG GCTGAGACCG TCAAAAGGCT GACGGGATTT GTGCCCAGGT CCTGCCCTAC
CTTTCCCAAG GAGCACCAGC AGCAGGTTTT TGGGGGCCAT TGAG

SEQ ID NO:189: (Length of Sequence = 215 Nucleotides)

GGAAGGATGA GAAACAGATT TCTGCTCACT TCATGGGCTG RCCTRGRATT GACGATGGTR CAAACCCAAG ATTATCCTCA
TGTAATTTAT GAAGATTATG GAACTGCAGC GCATGACATC GGGGACACCA CGAACAGAAG TAATGCAATC CCTTCCACAG
ACGTCACTGA TACAACCGGT CGGGCACATC TCKGGGCTA TGCTGCCGGT GGTGC

SEQ ID NO:190: (Length of Sequence = 153 Nucleotides)

TTTCATATGG AAAGAGCTAG TACAATCACA TATTTGAAAG GAGAAACAAT AGGTACTGAA CCGGAGGGAA AGGGCGAGGG
TGAGTGTGCC AGCACCGGCC TGGTGAATCC ACGATTCCGT TTCCCATCCA AGGGTAAGTT TCCCAAATA CCG

SEQ ID NO:191: (Length of Sequence = 316 Nucleotides)

GTATTTATAC ATTTATTTAT ATATGTATAT TTACTTCAGA NGAAACGAAC ATTTGGGGGA CAGGAAGCAA GCAGGCCCGG
GGCTGCTTCC CTCCTGCCC ACCTCAGAGT CAGAGTTGGC ACATGACAAA TACCAAGCTC AGGGTGAAGA ACTGGGAGTT
AACTGGGAAG TAGGGKGGC TCTATGCACA CGCAGGCTTC TAAGGGTGCA CGGTATGGGC AGKKGTTTG CACTGGGAGG
CCCTATGTAC AGCTTGAAAG CTAGGGGTGA GATTAGCCCA GTGACTACAG GAACATACGT CAAAGTTGAG AGAAGA

SEQ ID NO:192: (Length of Sequence = 360 Nucleotides)

GIGGTTTTTG GTTATATGCA GCTTTGACT AGCATGTATT GTGCTTTTT CTCCCTATG AATAATTTA TATTTCATGC
TACTTCTTGA AAGTTTACTC TTTGATGCTC TAAGAGAACA GCCAGATGGT TTATATGAAT AANCTTTATC TGCAGGATGG
TGGATTGGTA AATNAGGAGA ATGTTGTTTG AGATATCAAG ATTTAATGCT GGGAACTAAA ATATATAATG CCAAATGTGT
TTTTGTCAAT TACTAGAGAA TTCTGTGCAA ACATATCATC TCTTCATG CTGCACACTT TGCTTTTGT TAAACAGCAG
GTAGTAGACA GACCAATACC AGTTTCGGT TAAGG

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SEQ ID NO:193: (Length of Sequence = 397 Nucleotides)

GAAAAAGACCA AGGAGATGGT GAAGACAGCA GAAGCCAGCA AGCAGCAACT GAAGGAGGAG CAGGGGAGGT CAGCAAGGAA
CGGGAGAGTG GGGATGGAGA GGCTGAGGGA GACCAGAGNA CTGGAGGGTA CTATTTAGAA GAGGACACCC TCTCTGAAGG
TTCAGGTGTA GCGTCCCTGG AGGTTGACTG TGCCAAAGAG GGCAATCCTC ACTCTTCTGA GATGGAAGAG GTAGCCCCAC
AGCCACCTCA GCCAGAGGAG ATGGAGCCTG AGGGGCAGCC CAGTCCAGAC GGCTGTCTAT GCCCCTKTTT TCTTGGCCTG
GGTTGGCGTG GGGCATGCGT CTAGCTTICA CTCTGGTTCA GTTCCAACAG GGTCCGTTCT GTGCTTTTGG TGCCCCC

SEQ ID NO:194: (Length of Sequence = 225 Nucleotides)

GATTATTGGC TTTCCTTTCA TAACATGTAT TTTAAGTAT TTACTCTCTT AATGGCCCTC GTGTCTATTT TATACATCAT
ATCTCTTAAT TCTCTAGATG GAACACTGAA GGACAGGAAT TAAGTAAGTG ACTGGCCATG CAAGGGTTGG AAATTTTACT
GTATCCCTTC CTCRGTAGAA GTTATGTTAA ACAITCAAGC AACCACATAT CTAACAGAGG AGTTT

SEQ ID NO:195: (Length of Sequence = 294 Nucleotides)

ATTACTAGAT ATTGTATGT TAAATTATGT GGGTTTTCAA ATTGTGGGAG AATAAGTAAT AGTGACATTA GTTTAAGGAC
AGTGTTTCAT CAGGGCATT TTTAATGAA TCTTATATTT AAATGTCTGT TTCAGGAATT CATGTGAATC TTTCTTTTAA
TAGAGGACCC ACAGGCATGA NTAATTTACT CCTCCGGTGA TAGGTTCTCA CCTGTATGAA AGCGGAAGCA AATTCCAGGT
TAGAACATTA TNCIAGTTAT GTAGGGGGGT ATAAAGTGTG TAAGTTTAAAT ATTT

SEQ ID NO:196: (Length of Sequence = 233 Nucleotides)

TTATTTTTCT CTAAATTTTA AAATAGAAGA CTTAATGGA AAACATTAG TACCATCATG TCAMCCTGAA TGCCAGCAAT
ACCTGACTT TTACACACGC AGGAAGCCTA GTAAAGCCC CGTCAGTAGT ACACATTTCT CTATGGTCCT TCAACAGTTT
TTCATATACA AAATTTTCTG CTATTTTTCG TTTTGCAAAC AGCAATAACT TTGGGGTTTC CCATATGACC ACC

SEQ ID NO:197: (Length of Sequence = 230 Nucleotides)

AAGATATCTA CTTGGAGTAG CTGTGCAGCC CGCCCTCTG CTTCCTCCAG CCTCAGGCC AGTGCCAGGA CAGCTGGCTG
CTGACAGGAT GTGGCACTGC TTGAGGAGGG GCACCTGCCA CCGCCAGAGG ACAAGGAAGT GGGGGCCGCT GGCCAGGGTA
GGGAAGGKTG GGGCAATGGG GAGAGGCAAA TGCAGTTTAT TGTAAATATAT GGAATTAGAT TCATCTATGG

SEQ ID NO:198: (Length of Sequence = 118 Nucleotides)

TTCTCCTGGG GAAAGGGCTG TTGCTGAAGT GGCCGGTTTT TTTAAGCATC GACATTTGCA TCCAAAGGTT CAAGCAGCCG
CCTCAGGTTT CARAGGCTTC CACCTGATGG CTGCACCT

SEQ ID NO:199: (Length of Sequence = 268 Nucleotides)

TAAATGATGG AGTTAAATGA TGTGTGAGT GCCTATTTAA AAACTACTC TTCCCTTCT CTATGAGTTC TACTTTGGTA
AATATTAATA TTTAACCAGT TAGTAAACT AACACCACTA TTCAATTCT CTTTTGTCGA TAGTAAGTAA ATTTTGCTTT
ACTTACTTTA TAAAAAATA CTTTACATTT TATAAAGCAG GTTTTAGAAA AACGGTTTAC AAGAAAGTTT GCCTCCATTT
CACTGCCAAT TTAAGCACAG GGGAAAAAT

SEQ ID NO:200: (Length of Sequence = 422 Nucleotides)

CCAGTGAGTT TGTGAAAAGC AACAGGGGTA NGACAGGTTT AAGGAAGGAC ACAGACAGTG CCTGTTTTAA GGTTCCAAAT
TTCTTCTTTT TAATGGGTGG TGGGAGCTGA GCAATGATGT CATTTGGAAG GGGCAATGAC TTGTCAATNA TGCAGAACAT
GTAGGCATCA TGGAGAAGGA TGTGCATCGG TCTCTTGGGA TGAAACTGA TGTGTGTGAT AGGAGTATCC CTTTGGAGCC

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AAAGGTGGTG AAAGCCCTGC TTCTGGACAG TCCGGCTCCA ATCTGTATAC TGTTTGTCTG GGATGCTGTA CTCAAATACC
TGCTGGTCCG AATGAGCGAT GACAAGGTTG TTTGGTATTG GGGGCAATAG CCATAGCAGT CACTTGGGAA ATTGTAAGCA
GGCACCGTGC AGTGAAGTTT TA

SEQ ID NO:201: (Length of Sequence = 273 Nucleotides)

ACTCCACGCT GATGAACCCG ACGTCCATTT CTCCAAGAAA TTCTGAACG TCTTCATGAG TGGCCGCTCC CGCTCCTCCA
GTGCTGAGTC CTTCGGGCTG TTCTCCTGCA TCATCAACGG GGAGGAGCAG GAGCAGACCC ACCGGGCCAT ATTGAGGTTT
GTGCCTCGAC ACGAAGACGA ACTTTGAGCT GGAAGTGGAT GACCCCTCTG TAGTGGAGTC CAGGCCCCCA GACTACTTGT
TACGAGGGCT ACAACATGTG CACTGGGTGC CCG

SEQ ID NO:202: (Length of Sequence = 436 Nucleotides)

GGACTCCAAC CCCCCAGGAG GCCGAATGCT GAGCTTGSCA ATGGTGGCCT GGATGGAGCT GATGGGCACA TCCCCACCGA
GGACCAGGTC CTGGGAGTCC TGAGGAAGGT GGTTCCTCTG GCTGATGCTT GCACTGGCCA AGGGTTTGCA TGGAGGAGGC
ACACCATGGC GCTGCAGGAC CTGCTCCACG TGCTCACCAC CTGCCTCATA GCAGAACCIG AGGTGCAGCT TCTCCTGCAG
CATGTGCTTT CTCGTCTGCC GCATGCGCCG CACCAGCTGA GGCAGCTCAG GGATTCCKTT CCCAGCCTCC ACCTCCTGCA
CAGCTGCATA GAGCAGTGCA AAGGCTCCCG TCGGGCCAC ACCAGAGCTG CAGTGCACAA TGATGGGCGT TTGAGGGGC
CGTGATGCAA GGTAAATTGC GTGCACCTCC TGGGTT

SEQ ID NO:203: (Length of Sequence = 336 Nucleotides)

CTGCATGINT TGGGGACACT TACGCCAAGG CGCGCGTTC TCATTAGGAG CTGGGACCAG AAGTGAATAA GCCAGGTTCC
TGCTCTAGGG AGCTCCATAG CAGGACTCAG AACCACACAC GGCCCTCTAG GCATTTKTGA AGCTCTGTGC TTCAATTTTT
TTGCTTTGCC TCTAGTTTTC CTTTTCAGT ACCAATGCAG CCAGCCCATG TKTCCCTCT ATGTGAATG TTAACGATAT
TCCCACTGTT TCTGGTGTC TTCTGTAAAT CAGAGCTGCC GTGACCATTC CAGTTCAGGC ATCCTGGTGG CCTGGCTTTC
TCTGGGGCAT AGAGCT

SEQ ID NO:204: (Length of Sequence = 393 Nucleotides)

GGAATCAGAT GCTCAGGTGT CCAAGCAGGG ATAAGGACAG GCAAAATAAA TAACCCCCCA ACCCCCATCG TCACCTCTGCT
GCAACACGAC ACAAGGTTT AAAGATCTGG GCCCAAAGAC TCTGGGTCCC TTCAAGCAAG CTCAGGTGGA AGGAGGTTTC
CCACCCCCC ACCAGGCTCG TTGCCCCAG GTTGCCCTAG GATGGAGGCA GTTCAGACCC TGGGTCACTG AAGCTGATAG
GAAGAACTNC GATATCAATG GCTTAAGCCT GCTGINTGCC CAAGGGAGCC AAGGGCAAGA GCCAAAGGGC CAATTTAAGC
GACGTGGACC TGGGGGGCCA GAGGAGGCAC CACAGCCGAG GGGAGCCACG CCCTGGGCGG GCAGGGCACA TGG

SEQ ID NO:205: (Length of Sequence = 390 Nucleotides)

GAGGAAGAGG ATGACCTGAG TGAGCTGCCA CCGCTGGAGG ACATGGGACA ACCCCCGGCG GAGGAGGCTG AGCAGCCTGG
GGCCCTGGCC CGAGAGTTCC TTGCTGCCAT GGAGCCCGAG CCGCCCCAG CCCCAGCCCC AGAAGAGTGG CTGGACATTC
TGGGGAACGG GCTGTTGAGG AAGAAGAGC TGGTCCAGG GCGCCAGGT TCGAGCCGCC CGGTCAAGGG CCAGGTGGTC
ACCGTACATC TNCAGACGTC GCTGGAGAAT GGCACACGGG TGCAGGAGGA GCCGGAGCTG GTGTTCACTC TGGGTGACTG
TNACGTATC CAGGCCCTGG TTCTCAGTGT CCCACTCATG GACGTNGGGG AGACGGCCAT GGTCACTTCT

SEQ ID NO:206: (Length of Sequence = 172 Nucleotides)

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CTTACTGTG GGTGTGGGTG TCACTGTCAC TGCCACAGCC ACTNGGAGGG ACACACAGCT TTAACCCCTR TTTGCTTAGG
 NGAAGGGTGG GGGCAITCAG GGTATATAA CTAATATAT ACACAGAAGG TCCTAGGKAG AAAGCCACCC TGAGCACACA
 TGCTTAGGCA CA

SEQ ID NO:207: (Length of Sequence = 215 Nucleotides)

AAGGCAATTA GAAGATTAT TGAATATTGG TTAAAAGTAG ATTGACAATG ACATTAAAGA ATAAAGTGTA ATTTATTGG
 TGCTACTTTG TGAATGCTTC CAAGTACAAA TCATCTCACA ATACCATATA CAACATACIT TCAATCACAA CTCAAATATA
 AAATAACCTA CAAAATCACA TTGCTATAAT CAATATACAA TAATTGTATT TTTAA

SEQ ID NO:208: (Length of Sequence = 444 Nucleotides)

GGAGTTCTCT TGTCACCGA GAGCAGTGT GAGTGTATG GAATGCTAAA TCCTACCCCA AAGGGCAAGC AGGCTCCAGG
 TGGCCATGAG CTGAGTTGTG ACTTCTGGGA ACTAATTGGG TTGGCCCTG CTGGAGGAGC TGACAACCTG ATCAATGAGG
 AGTCTGACGT TGATGTCCAG CTCACAACA GACACATGAT GATCCGAGGA GAAACATGT CCAAAATCCT AAAAGCACGA
 TCCATGGTCA CCAGTGCTT TAGAGATCAC TTCCTTGATA GGGGGTACTA TGAAGTTACT CCTCCAACAT TAGTGCAAAAC
 ACAAGTAGAA GGTGGGTGCC ACACCTTCA AGCTTTGACT ATTTTGGGGG AAGAGGCATT TTGACTCAAT CCTCTCAGTT
 GTACTTGAGA CCTTCTCCC AGCCTGGGAG ATGTTTTTTG TATT

SEQ ID NO:209: (Length of Sequence = 338 Nucleotides)

GCAGTCACT TGAGGTCAGG AGTTGAGAT CAGCCTATAT ATGCAAGTAC ACACACAGGC ACTGCGACGC ATGCATGCTC
 ATGCAACACA CATGTACACT CTACATGTAC AGCTCACATA TGCATCCATA CACATGTGCA TGCTCACCCA TACACCGACC
 ACACACAAGT ACTCATACGC ATACATGGCC ACACACAAAG TACACACAGC TACACCATAT GCATATGTAT GCACTCATAC
 ACTCATACAT ATGTGCCCC TCAGAGAAGT ACACAAGTGC ATGCGCATCA CACATGCATA CGTGCTCATG CATACACAGC
 GGACATTICA TACACAG

SEQ ID NO:210: (Length of Sequence = 371 Nucleotides)

GAGGAAGTAG AGCCTNAGGA GGCTGAAGAA GGCATCTCTG AGCAACCTG CCCAGCTTGA CACAGAGGTG GTGGAAGACT
 CCTTGAGGCA AGCGTAAAG TCAGCATGCT GCAAGGGGAC TGTAGATTTA ATGATGCGTT TTCAAGGGTA CACACCAAAA
 CAATATGTCA ACTTCCCTTT GGCTGCACT TTGTACAAA TCCTTAATTT TTCTGAATG AGCAAGCTTC TCTTAAAGA
 TGCTCTCTAG TCATTTTGGG TCTCATGGCA GTAAAGCTCA TGTATACTA AGGGGGAGTC TTCCAGGTGT GACAATCAGG
 TTATTGAAA AACAAAAGT GGTTTTGGGA TCTGTTTGGG AGACTGGGA T

SEQ ID NO:211: (Length of Sequence = 295 Nucleotides)

CCTCCCAACG TGTGACATT ACAGGCGTGA GCACACGCAC CCAGCCCATC TAGCATAATG TTTTGCATAG TTGTCAGCAG
 ATAAATATTG AATGACAAA CTCAGATGGA GGAAGAGAA CAAATAACC TAGTTCTCAG AAAGATTTAA TGAGCAAATG
 GGAAATGTC AAAAAGATTT ACAGACAGGG GCATCTTAGA GTCACGGAA TCACACAGGC CTTCCTCAG CTGAGGGGC
 TGCTTGAGG TGGGGTGGG GGTACACCTC CTCAGTGGG AGAGACTTGC CAAAT

SEQ ID NO:212: (Length of Sequence = 370 Nucleotides)

TGGCCGATAT GAGGGGGTG GGAAGGGCC CCGCGCTGCC CCGCCGCTT CCTATGTCA TTCTGAGGA GGGGGGATC
 CGCGCATACT TCACGCTCGG TGCTGAGTGT CCGGCTGGG ATTCTACCAT CGAGTCGGG TATGGGGAGG CGCCCCCGCC
 ACGGAGAGCC TGAAGCACT CCCCCTCCT GAGGCTCGG GGGGAGCCT GGAAATCGAT TTTGAGGTTG TACAGTCGAG

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CAGTTTGGT GGAAGAGGGG GGCCCTAGAA ACCCTGTAGC GCAATGGGGT TGGGCGCCCC AAAGGTTAAG TTTGAACCCG
AAGAGCAAAG GAAGAGGCGA TCATCATAAG TGGAGGATTA GGATTAGGAT

SEQ ID NO:213: (Length of Sequence = 302 Nucleotides)

ATCTGTGGAA TAATCTGCGG GCTAACACGG ATAACTCAGT ATAAGAACCA CCCAGTTGAT GTCTATTGTG GCTTTTAAAT
AGGAGGAGGA ATTGCACTGT ACTTGGGCTT GTATGCTGTG GGGAAATTCC TGCCANTGA TGAGAGTATG TTTGAGCACA
GAGACGCCCT CAGGTCTCTT GACAGACCTC AATCAAGATC CCAACCGACT TTTTATCTGC TAAAAATGGG TAGCAGCAGT
GTATGGGAAT TTTCTCATAC AGAAGGGCAT CCTCAAACC GGAAACCACA GAGATGCTAG GT

SEQ ID NO:214: (Length of Sequence = 354 Nucleotides)

ATGGATGAGT GGGCACCCCG CACAGGGCTG CAGGGTGGAA AACGCTCGAC GGCCAGGTGG TGACTTGGGG GCAGAGAGCG
CAGTGTGTA GGGGAGGAGA GGTGGTGTCC CTGCTGCTG GGAGCCAGCC TGCTGTGCT GTGGGAGAG CAAGGCATTT
TCTGCTGCCG GTGCTTCAG GGCTAAGCA GCGCTGCAC ACTCACCAGC GCAAGGCTCC TCTGCAGGGA ACGAGGGCTG
CTACCCATTT CACAGATGAG GGCAAGCAAG GACTTGCCCA GGGTGGCCCA NAGCAAGTGC GTAACAGGCC CTGAGAAGAG
NGCCAGTGA CTCATCCTGA GTTAATTATG GGCT

SEQ ID NO:215: (Length of Sequence = 260 Nucleotides)

TGGTTCAAAG TCTAGGCCCT CTNAGAGCT GGCTGATTCA GCTTGCCAAC AGTGACATCA GGGTGAGGCT TCCTCTGTCC
ACAGCATTAG CTGCGAATAT CCTCATGGTC ACAAGATGGC TGCCAGTGGC CGTCAGGTG TGTGCTTCTT GTTCACATC
CAGTGAAGA GTGACAGCCT GCTCCCTTA GCTCTCTGAC ACCANITGA AGGTGCCANG AACTTACTAG CAGGNCITTC
CTCATGACCC ATTCAACAGG

SEQ ID NO:216: (Length of Sequence = 232 Nucleotides)

CTGGACAAG ATCTGGGATA ATTCTCTGGA TTACCTGGCA GAGACTTTTK TTCTCTTCCC TTACTGTCTC CCAAATAAAC
AGTCTCTCAC TCTGTGTGA GCCACCTGAA GCTGTGATAT TTCCAACGAC TGTAGGAGGA AAAAATTAAG GGGAGAGAGG
AAAACAAAAC CAACCAACCC CTAANATCAT TTNTTTATG TACATAACGA CCTCAITCTC CTGTATATGC GG

SEQ ID NO:218: (Length of Sequence = 219 Nucleotides)

CTGCAACCAT CCATACCTTT TNCOCGTGGC TGCTATGGAG TCCCCAAAC TCCCCAGTGG GGCTTATGAG GGTGGGGCAC
TTATTANGIN GTCTGGGAAG CTCATGCTGC TCCAGAAGAT GCTGCGAAGC TGAAAGGAGC AAGGACACCG AGTGCTCAAT
NTCTCTGAG ATGACCAANA TGTTAGCCTT GCTTGAGGGC TTTCTTAGNC TATGAGGCT

SEQ ID NO:219: (Length of Sequence = 390 Nucleotides)

GATAGGTAGC AGAGACCAAG GCGCAGGGTG CTTGAGATGA GCAAGAGAAC CCAGTCGAAC CAGATACCCC AGGTGGGGCG
GAGGGACCCC AGACCTTCAG AGGGCTGCCC TGGTGTCTC CACAGTGCAG TCCCTCTGTA TCCCAGAGT GGGATCGGGG
CTTTCAGCCC ACCCTGATGC CTGCCCTCCA GGATGGCTGG TTAGTCTGG GTCCATGTCC CAGACCCCTC TATTCTGCTC
CAGGACAGCA GGACTTCAGG TCTTTCCTGG GGGTGGATAT AGGAGAAAAT TTCTGCCCTG CACACACCTG GGCTCCAACC
ACTTGCCAAG TGATTCATC TTAGGCCAG GGGGAACACA ATGACTATCA TTACTGATGC AGACCTGGCT

SEQ ID NO:220: (Length of Sequence = 382 Nucleotides)

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TTTTTGTTT GTTTAATAT TTTTGATATT CTCITTCAT TGAAATGGTA TAAATGAATC CATTTAAAAA GTGGTTAAGG
ATTGTTTAG CTGGTGTGAT AATAATTTT AAAGTTGCAC ATTGCCCAAG GCTTTTTTTG TGTGTTTTTA TTGTTGTTG
TACATTTGAA AAATATTCTT TGAATAACCT TGCACTACTA TATTTCATTT TCTTTATAAA TTTAAGTGCA TTTTAACTCA
TAATGTGACA CTATAATATA AGCCTAAGTT TTTATTGATA AGTTTATTG ANGTTCTGAT CGGTCCCTT CAGAAATCTT
TTTATATTAT CCTTCAAGTT ACTTCTTAT TTATATTGTA TGTCATTTT ATCCATTAT GT

SEQ ID NO:221: (Length of Sequence = 314 Nucleotides)

GACTTTGGTT TATTTAAAAA ACAAGCCAAA AAAAAA AAAAACCCTA ACTTTATATA CAAAGTCAAA CTGAAACCAC
GGWTATGGA AAGAGGCAAG AWTATGGGT AACAGGGGAG AAGGCTGGGC CAGAGCCAAT ACCACATTCT GAACACAGGA
GCCACGGGAA AGAGGTGCTG GTTCTTCTG GCAAGACCGG GGTGACTGGA ACGCAGTGGT CCTACTGGCA AACCCAGCCC
AACACTGAGC TCTTCTAGC ATGGACTCCA TTCCCGTGAT TGGCCAAGGG AGACCCCTTC CCCAGGAGGC CTGT

SEQ ID NO:222: (Length of Sequence = 342 Nucleotides)

TTCTTCTCT GCGCGGCAC GTGCNAGCA GCCTGCTTCG CCCCCTGTC AACTTTGAGC TGGAGGAGAA GCAACTTTGG
CAGTGGCCGC GGGGTGGGAA TCCCGCTTCT CCTCGGCAGC AGTAGGCTCG CAAGTCGCTG GGGTTAGGTG GGGCAAGAGT
TTGCGCGCG CATCAGCGCT TGCTTCGGAC TGTTTCAAC GTGTTCCAG CGAGCTGGGA GCGGGGGTTG TGAATGCGAG
TGCTCTGGG GAGGGGGACT TGTTTCTT TTCTCTAGA GACCTCGGCT TTCAACTGGA TCAACGTTG TCGAAAGGAT
GTAAATAGGC AAGAGCAAAC TG

SEQ ID NO:223: (Length of Sequence = 376 Nucleotides)

GTGATGGCTG CCTTGAGGGG GACCATCATG TCGGAGACGC ATTGGTGAGC GTCTCACCCC ACAGCCCATG CCCAGCCTCC
TGCAGACTCA GGTATCCAG CTGGTCGATG GCTCTTTCGA TACCTGGTGC CTCTCTCTCT CCGGCTTGGC AGGCTTCTCT
GGGGCTTCT CAGATGACTC TTTTGCTTC TTCTCTGCT TGGCTAACTC CTGGCCAGC TCTGAACGTG CCTCTTGGC
TCCCTCTCT ACCACCTCT CCGGTTTGGC CAACTTGCTC ACGGCCGTCT TGGTAGTGGC TTTGAGGCTC TCCTTGCTAT
CAGCCCGCTG TTGATTTTG CTGGCTTGA GGTGGTAAG GCACAGCCCC AAGAAG

SEQ ID NO:224: (Length of Sequence = 445 Nucleotides)

GTGATAGAC ATTGGCATTG GGGTTGCTTC CACCTTTTGG CTGTCATGAA TAATATTGCT ATGAACACTA ATGTACAATT
CTTGGCTGA ACGTAAATGT TTTCAATTTCT CTGGGTATT TATCTAGAAA TGAAATTGCT GTATGTTAAC CCTTTGTTTA
ACCTCTGAG GAAGTGGCAG ACTTTTCCAA AGCAGCTGCA CCATTTTAAA TTCTAACCAG CAGTGTTTGA GGGTCCAAT
TTCTATATAT CCTTGGTAAC ACTTGTATC TGCCCTTTTG GTTAGAGACA TCCTAGTGAG TGTGAAGTGG CATCTCACTG
TGGTTTTGAT GTGCATTTCC CTGATAGCTA ATTGTGTGGA TCCCTTTTGC TTTTAGTGA ATGAAATATC TGGTAGTCTC
GTATGCCAAA CTAAAGCTAA AATTAAAATG ACTCTGCATG ATGGA

SEQ ID NO:225: (Length of Sequence = 403 Nucleotides)

TGCTCTCGG ACAGTTTCCC GGGCAGCTCC TGGCCAGCTT CCAGCCAGA GTCTCAAGT CCAGGGCACC TTGGGCCACG
CGCAGGCAGA ATCCGAGGTG GTCTGGCTC TACCTGGGC CTCTACTCC CCAGCAGCCC TGGAGGAGGC AGGGGCTCCC
CGCCGCCGAG GCTGCCGCTC TAGGCCAC CTCTGCATGC TGCTCATGGG GCCACCTGC CTCTGGGCC CTCACCTGCTC
CTAGGGGAGC TGGGCCAGGC ACTAGCCTTT GCCAGGGAG GTGGGCTCA GGCTGCCAG GTGCTGCAC CCCAGCCGGG
CTCTCTGGG GCTCCCGGT CGTCAAGCCT ATATCTGTC TGTCGCCACC CCAGCTGTCC CTGCCAGGG GACTGGCATA
AAA

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SEQ ID NO:226: (Length of Sequence = 440 Nucleotides)

GTGCCTTAAG GAGAGAGAIT GTGTCTTCC TCTCTCAGGG GTGATAACTC AGGAAGCCTC TGGGTGCGGA AGACCATCAG
 TTCTTTTGTC TTAGGTTTCT TTTCTGTCC CTCTTCCATC CCCAAGATGT GACCCCATAA AAATTTTTC TGAGTTGGCC
 AGGCATGGTG GCTCAGCCT GTAATCCAA CACTTTGGA GGCTGAGGCG GGCGGATCAC GAGGTACGA GTTCGAGACC
 AGCCTGACCA ACATGGTGAA AACCCATCT CTAATAAGGA TACAAAAATT AGCCGGGTGT GGTGGCACAC ACCAGTAAGT
 CCCAGCTGCT CAGGAGGCTG AGGCAGGAGA TTTGCTTGAA CCTGGGAGGC AGAGGTTGCA AGTTAGGCCG GGAITGCGCC
 GTTTGTACTC CAGCCTGGGC AAGCAGAGCA AGACCATCTA

SEQ ID NO:227: (Length of Sequence = 426 Nucleotides)

GACCAAGAAG TTCCGGTTCG AGGAGCCCGT GGTTCGCTT GACCTGGACG ACCAGACAGN CCACCGGCAG TGGACTCAGC
 AGCACCTGGA TGCCGCTGAC CTGCGCATGT YTGCCATGGC CCCACACCG CCCAGGGTG AGGTGACGC CGACTGCATG
 GACGTCAATG TCCGCGGGCC TGATGGCTTC ACCCCGCTCA TGATCGCCTC CTGCAGCGGG GGCGGCTGG AGACGGGCAA
 CAGCGAGGAA GAGGAGGAG CGCCGGCCGT CATCTCGAC TTCATCTACC AGGGCGCCAC TTGCCACAAC CAGACAGACC
 GCACGGSCGA GACCGCTTTG CACCTGGCG CCGTTACTTA CGCTCTGATG CGCAAGGGC TCTTGAGGCC AGCGAAGATG
 CCAACATCAG GCAACATGGG CCGAAC

SEQ ID NO:228: (Length of Sequence = 278 Nucleotides)

CAGGACCAGG AGAAGATCCT GGAAGATGCA GTGGATGAGT GGACGGGCTT TAACAACAAG GTTAAAAAGG CCACTGAGAT
 TGTTTTAGAA AACCAACAGC AAAACACTGA CAAGGTACAT AAATACAGAT TGGACATTTT AGGGTAAATT CACTGTATTT
 CCTACTTGCT TGTAGGAAAC CGAGTAAAGT GGAAGAGCTG TCCTGATCAT ATGGCATGCA CACCAGACTG CAAAAGGNGC
 TCCACTAT TTAACAGGAC TGTGGCAAAA TAGCTTTA

SEQ ID NO:229: (Length of Sequence = 425 Nucleotides)

TTTTTGTTCC CAAGCCTTTG TGACTGACTT TAAATCCTCT CACCTGCAGA ACAGAGATGG CTTCAAAGTG GGGAGTGAGG
 GAGTGAGCGA GGACCTGGG CTGAGACCTG TTTTCTTCC ATTTCTGCTG TGCTTCCCA CAGCTCCCTG GTTCCACACC
 AGGCCCTGCT CTGCCGAGA AAATGGATTC CCAGGCCACA GAGCTGTGAG GCCTTTGACT TTGCAGAGAC CAAGCACCCC
 AGAGGCTGTG CGACASGGCT AGTCCCTGGT GGGCCGGTCT GGGCATGGG GGCAGGGAG ACTKGAGAT GGGGAGGGCG
 TTGAGATCC GGGGGTCTT GGATACITGA CAAATGGCT CAGGTCTTAG CTYTGCTGC CCCACTGATT GTGTGCTTG
 GCAAGGTGCA AGTYTTGGC TGTTC

SEQ ID NO:230: (Length of Sequence = 382 Nucleotides)

TTGGAGGATG TGCTGCCCCCT CCTGCAGCAG GCGACGAGC TGCACAGGGG TGATGAGCAA GGCAAGCGG AGGGCTTCCA
 GCTGCTGCTC AACAAACAGC TGGTGTATGG AAGCCGSCAG GACTTCTCTT GGCGCCTGGC CCGAGCCTAC AGTGACATGT
 GTGAGCTCAC TGAGGAGGTG AGCCAGAAGA AGTCATATGC CCTAGATGGA AAAGAAGAAG CAGAGGCTGC TCTGGAGAAG
 GGGGATGAGA GTTCTGACTG TCACCTGTGG TATGCGGTGC TTTGTGGTCA GCTGGCTGAG CATGAGAGCA TCCAGAGGCG
 CATCCAGAGT KCCTTTAGCT TCAAAGGAGC ATKTTGACAA AGCCATTKCT CTTAGCCAG GA

SEQ ID NO:231: (Length of Sequence = 398 Nucleotides)

GAGGCTGGAG AATCGYTTGA ACCCAGGAGG CGGAGGTTCG AGTGAGCCGA GATGGCGCCA TTGCACTCCA GCCTGGGCCA
 GAGCAAGGTT CCTTCTCAA AAACITGGAA ATCTGTGGG AAGTAGGGGG AGGGCAAGGT TAAAACCTAT GCAGGTGTGT
 CAATTAGACT TGTTCCAACT TGAGAACCTG AATTTTGCAT GTAATGAAA TGTTCAGAA CAAGTCTGGC AGTTTCATAA

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GGGAGTTTTT AGATGCCAAT ACATTGCAGA TAACCATATT GGTACATTA GGGGAATGAG CATGGGATAG GTGCCTCCCA
GTTGGTAGGA TAGCATGAGG AGGTTTCAAA AGTAACCSCT TTAAGGGTGA TGTCCAGTAT TTGCTAAGTA ACCAAGGT

SEQ ID NO:232: (Length of Sequence = 272 Nucleotides)

GGGGCTGCAG ACTGAGTTAT TTTATTTCGC TATTTCAGT TTGAAGCTAC TATCATGGGC GTTTAGAGTT ATACAAATGA
CACTTACAAA AAATAAAGA CCAAGACACC CAGAGTGAGA TGCATGTTGG GGACGGGGGA GGCTGGCAGC AGGGGGGCCC
CGCGGYTCA CCCAGGGCT CCGGAGGGG CGACGCTGG CTTCATCCAC CCGGAGGCC CAGGAGCAC CAATCACAGC
AGGGGCTCTG GCCCAGGTGT CGGCAGCCCA GG

SEQ ID NO:233: (Length of Sequence = 364 Nucleotides)

ATTTTACAGT TTTATTTTAA AATCATTTAC ACATATTTCAT ACAAAGAAAA ATAAATTTCA GGATGGAATC CTGGGGACCA
TGGTAGTTTA AAAAAAAAAA TCTCTCTGAT CATTAGCTAC TAAAGACANG GCAAGAGGCT TAGCAGTCAT TTCTGGGGGT
TAGTGTATCT CCCCATGCAG GGGACAACG NGAGAATCC AAGCTGCTCC CTCATCTTCC TTGATCTAG ATGGGGGAAG
GGGATTTTCC AATGCTCTCC CCTAGAAACA TTCAAGAAG TACAGCAAAG GCTTATGGTA AACTGGGAAC CTATTTGCTA
GAAATCTGGC AAGATTGCAC TTTCTGAACC CAATTTTCCT ATAA

SEQ ID NO:234: (Length of Sequence = 217 Nucleotides)

GGCCAGGAGC CAGAGGGCCC CGGGGCCACC CCTGCCGGG AACGTGATGA CCAGAGTCCA GACAGTGTCC CAGAGAGGCC
GGGCCCCGCA GACCGGAGGC TCTGTCTGCC CTNCGTGGAC GCCTCGCCAC TCCCAGGGAG GACGGCCTGC CGTCTGCTGC
AGGAGGCCAC GCGGCTCATC CAGGAGGAAT TTGCCTTGA TGGCTACCTG GACAATG

SEQ ID NO:235: (Length of Sequence = 221 Nucleotides)

AACTTTAAAG TTAGGATTTT AAAATATTTG TAACTGGCTA AATTTTAAAG TCGTGACAAA TAATTACTTA GGTTCAGAAA
TATACACACA CTACTCTTT AGCCAGTTTC TTTCAGGTTT TTACTGTCCC ATCAGATATC TAGCCATTTK CCTTTGCAAA
TTACATACCT TCTTAAGAGT GTATTTTAA GATTATTACT TATGCTTTAT GATGATATAG T

SEQ ID NO:236: (Length of Sequence = 221 Nucleotides)

ATAAATGGGT TTCTACTCC TTAGGGACAC GATTGGAAAC AATACATCCC ATGAACACAG GTGAATGTCC CTGGTTATCC
CTGAGCTGGG CAGTTTCACA CAATCANTTT TNCCTGAGG CCAAAGTCTG TGGTTTGATC ATCTTAGCAG CTTCAGAAC
AGAAAGTAGG TTTACTTTGT CTCCAAANTC TNATCTCGG TGCTCAAAGA AGAATGACCT G

SEQ ID NO:237: (Length of Sequence = 251 Nucleotides)

GACATCTTTC TAAGATTCTC TGTGGGAAAA TGACTGTCAA TANAATGCGG GTTCTGGGC CATTGCTCTT ACTTTCATTT
TTTGATTACA AATTTCTCTT GACGCACACA ATTATGTCTG CTAATCTCTT TCTTCTAGA GAGAGAACT GTGCTCCTTC
AGTGTGCTG CCATAAAGG GTTTTGGGAA TCGATGTAA AAGTCCCAGG TTCTAAATTA ACTAAATGTG TACAGAAATG
AACGTGTAAG T

SEQ ID NO:238: (Length of Sequence = 327 Nucleotides)

GTTCTGGCT GTCACAATAA TGCTGTGATA ATGCTGTGGT TTCCAGCAG GGAGGTGGGA GCGGGAGGG GGCTGCAGCC
TGATGAGAGC CAGCTGAAGG AAGAGCTGCC TCTCCCTTCC TAAGCCCTT CCAAGTCT GCCCCACGC CCAACCAAA
GACCACTCCG AACAAAGTGA GGATGTGGAT GCTCTGTCTG GGTCCGCTGT TCCGAGAGG GAAAGAAAG GTAGCTGCAC

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TGACCCCACT GTCCCATAT ACAAGGGTTK GGGGGCAAGA GCATGTGGCT ACTCCAGCA AGGGRAAAAT GGGAGGAGCA
GTAGAAA

SEQ ID NO:239: (Length of Sequence = 285 Nucleotides)

ATTATTAGT TATGGTGCT TAAACCTATC AAAATAGTTG TAAGTAAATG GATTTCTTGT NCTCCCAATA ACAATTCTCT
GAGCTAGGAT AGATGTCTTT CTGGCCATTT TACAGGTGAT GACACTGACA TAGGGACTGA GTGGGTAGCT TAAGTNCAT
GGTTACCAGG AGCAGGACCN ACGTTTCCTG NCTCCAGTC TCATCCTGTT TTCCACTGAC CAGGTTGGTT GCTCCCTTGG
AAAGCAGTCC CTGAGAGTTG ACTTAGAAGT TCAGGGNGAA GAGGT

SEQ ID NO:240: (Length of Sequence = 349 Nucleotides)

TTTTGCCATG TTGGACAGGC TGATCTCAAA CTCCTGGCCT CAAATATCTT GCCAGCTTG GMCTCCCAAA GYGCTGGGAT
TACAGATRTG AGCCACTGCA CCCAGCCTGA CATGCCATAG TTTCAGCATT TTCTTGGGCA ATGATCCAAG CTGAAGGCTG
GTCTGAGGGA TCTSAAGAAG CGTATGAGTT GGAAGAGAGG GACAGAAAGG AAGAAGACAT GTGAAGAGAG AAAAGGAAGG
AAGCTAGCAG AGGAATGCC TCCAATAGAG ACTGCTGCCT GAAGCTCAGC CCTCTGAAG ATAGGTAGGC CAGGCTGGCT
TAGCTGAGGC AGTGGGTTAG ACCAGCCCT

SEQ ID NO:241: (Length of Sequence = 233 Nucleotides)

GTGACGGGT CTGCCTTCAT CTTTAAATGG CCGGTGGGT ACAGTTAGTG GACAGACGGG GGATGGGACA CAGCAGGGT
GAAACAGGGC AGTCACAGCC GGGGCCGGG ATCTGGAAGC GGGGGCGTTC CTCCCCCTGG AAACACCGTN TCTGGAAGGA
CACCCCTAGG ATCCCTGAC CTCARGGTGC CACCCACAGC GGCTGGTGT TCTGGGAGGC CCGGCTKGAG TGA

SEQ ID NO:242: (Length of Sequence = 372 Nucleotides)

ATATGTACTA CATTTGGTGG AATACGCATG TACAATTCCT CAAAATAGT AAAGAGCAAA ACAACAAAA AATAGTAGAA
GCACTGGAGA AATACACTAT GGCATAAAT AGTTACGGGT GGGATGTAC ATGGACCATA TCTACACTCT GTGGCAACCT
TCTTACCTGA CTCCAAGGA TCAGATAATC AAACAGGAAA TTATGGTAGG AAATCAGAAA ATTGAAGTAT GCATTTCATAT
CCTAAGCATT TTATTTTAGC TCAAAATATA AAAATATTCA TCAGTTAGCC AAGCTTTTGN GATGAGAGAT CATAGCCTCC
TCTTTGATAG GGGGTTTCTT GGGTTTCCTT GATTTTCATG TTCAGAGTTT TT

SEQ ID NO:243: (Length of Sequence = 256 Nucleotides)

CTCACACATT CATACCCAAG GAAGAGGCAA ACACACTCAA GTCCAGAGTT CCCAGTGGTG CCGCCAGAC CTACTGTCCC
GGGGGIGTTA TGGCTGTCCC TCGGCTTCCC CAGAGCAGCC AGGACAGCCT GCACCGNCTN CCAGACTCTC GCAGGAAGGG
GAGCTCTGCC CTGGGGAGGA AACTINACAG CTGGGAGACA AGACTCCAT CGCAGGGACA TGCACAGCAG CAGCCACAGC
CCCGGGACG GGGCAT

SEQ ID NO:244: (Length of Sequence = 220 Nucleotides)

CAAATGGCAG TTCTCGAGAA TCGACGAGGA ACTTAAATCT GGACTCAGGG TTTCAGTGGG GTCTCCGACT CCCACCACCC
CGCCCCCTCG NCTGTCTCGC CGCCAGNGT GACCTCCAG CGAAGGAATC TTCTTCGGAT GGGTGACCT TGCCANAGG
TGTTGCACCT GGNGACTAG GAGGCGCTC CANACTAAG GCGCTCANTG CGCGTCTCT

SEQ ID NO:245: (Length of Sequence = 239 Nucleotides)

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TTCATGCTCA TGTAACCTTC TTAATAGTGC CTGTCTGCT GGGTTTGTAG CTGTAAGAGT TCTGCAAAC TGGCCCTATAA
 AAATATTGAT GCTGTCCATT AAAATGAATC TCTCTCTCTC ACTCAGTCTC TCTCTCTGTC TGTCTCTCTT TCTTCTCTCT
 CCTGCCATGT GGTGTCTCT CTCTACTCCT CTGATTTTGN CCTCTCTCTC TATTCTGCTA CTCTCTCTCC TCTCCTCCG

SEQ ID NO:246: (Length of Sequence = 269 Nucleotides)

GGTTTCACCA GCGTTTAATG TGCTCTGATG TTGACCGTCC CTCINAGINT TCTGGGGAGG AGGGGGTGGG GCGGAGGGTC
 AGGAAAGCAG GCTCAGCTTC CAGGGTCAGG GAGTTGTGGG CCCAGAGGGG CTGTACACAGT GGATGCACCC TGCCCCCTCC
 CTCGCCAGAC CCGAGGGTAG GGCAGAGGCA CCTCCTCENC AGCCINTGGG CTGCACCCAC AGGGAATNGA GGGGAGGGGC
 ACCATTACCA CTGGACCCAC CAAAGACCC

SEQ ID NO:247: (Length of Sequence = 297 Nucleotides)

CTATTCAAAG TTTACTGACC TCCCCAGCCA GGCAGGCCAA CCTTCCGAG CAGGGGAAAT GTCCATCTAG CTGCCCTCTG
 CTGGGTTCGA GCCTATGCCA TGAGAGGGTA CTGGAAGCAG GAGGGAGCCC TGGCTAGGGC AGGCCTTAA CCAAGGGAA
 GCTGAGCAGA GATCTGCACA CTCAACCCCA TTTGATATTC TTCTCCTCCT CAGTCATGGC CAGCGTGTTC GTGACTAGAC
 CCGTGCCAAT AGTCCGGTTC CCATCTCGCA GGGTGAAAAG ATGGCCCTTC TCTTAAG

SEQ ID NO:248: (Length of Sequence = 281 Nucleotides)

ACAACAAGCA CACCAACTAT ACCATGGAGC ACATCCGCGT GGGCTGGGAG CAGCTGCTCA CCACCATTGC CCGCACCATC
 AACGAGGTGG AGAACCAGAT CCTCACCCGC GACGCCAAGG GCATCAGCCA GGAGCAGATG CAGGAGTTC GGGCGTCCCT
 CAACCACTTC GACAAGGATC ATGGCGGGGC GCTGGGGCCC GAGGAGTTC AAGCCTGCCT CATCAGCCTG GGCTACGACG
 TGGAGANCGA CCGGCAGGGT GAGGNGAAG TTCAACCGCA T

SEQ ID NO:249: (Length of Sequence = 383 Nucleotides)

AGCGCATCCA CACCGGGGAG CGGCCCTACC CTGCTCCTA CTGTGGCAGG AGCTTCCGCT ACAACAGAC ACTCAAGGNC
 CACCTCCGTT CAGGCCACAA TGGAGGCTGT GGGGGTGATA GTGACCCATC AGGTCAGCCA CCAACCCAC CAGGTCCCCT
 CATAACTGGG CTGAAACTT CTGGCTGGG TGTCAACACT GAAGGTCTAG AGACCAACCA GTGGTATTGG GGAAGGGAGT
 CGAGGGGGAG TTTTGTAAAT CCAAATCTCT GTGGNTTCAT GCTTTGTATA TGCTCAGAC AGGGCACAAT AATCCAAGAG
 AAGGTCTGTG AGCCCNATC CAACACCCAC AGTAATTATA ATCTTGGCAC ATCAATGGAA TTT

SEQ ID NO:250: (Length of Sequence = 397 Nucleotides)

GTATCCTACG TTACAACAAT AATATCATGG GAGAAATAGA AATAGCCTAG TTGCTTCCA ATAGAACTG CTTTAAACAT
 GGGCTGTATA TAAAAATATT AAAGAGAAAC AAAACTGTAC ATTTCTCAT TGCTCCGCTA CAGACAACCC ATGTCATAAC
 CTGTGTGCAA ATATTTTCT CCTATAGCAG TAAGTACAGC ATTAGAAGGT GATTAGAGAG TCTGTGTATG AAACACAAAT
 GTATGTTTTT ATGATTTTT ACTTTAGAAC ACTACAGAGT TCGTGGGACC GGGGTGAAG GCATTTAGCT GGGGTGGTTT
 GTGTGGGGT TAAATACCTT CCCACTGCA AGTGAATTGC CTGNNCCGC TGCGGAATC CTGTNCTTG GGTGGGA

SEQ ID NO:251: (Length of Sequence = 276 Nucleotides)

GGCCATAAAA GAAAGAGCCT GTTACCTATC CATAAACCC CAAAAGGATG AGACGCTAGA GACAGAGAAA GCTCAGTACT
 ACCTGCCTGA TGGCAGCACC ATTGAGATTG GTCCNCCCG ATTCCGGGNC CCTGAGTGC TCTTCAGNC NGATTTGATT
 GGAGAGNGA GTNAAGGCAT CCACGAGGTC CTGGTGTTC CCAITCAGAA GTCANGACAT GGACCTGCGG CGCACGCTTT
 TCTCTAACAT TGTCTCTCA GGGAGGGNTC TACCT

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SEQ ID NO:252: (Length of Sequence = 314 Nucleotides)

CCTGAACAGT CTGTTTCATT TGACTGTTTG GGGGTCTCCC AGTTTAAGCA AGATATTTAA GCCTTATTTT TCTTGGCATG
CTTGGATTCC CCAGTAAAAA AAACCTCTGC CCTGGGCTGA CAATCAAAGT TCTGGGAAC TATATGGATA AGCAAGCTGG
AAATGGAGAA GGCTATTAC TGTCCTGGG TOCTACTGTT TTCTGCTNIGG GAACTGCTTT TCCATTAGGC CTGGTGTGCC
CTGGAAGGGA NGAGCCTCTT GCAGAGACTA CAATCTTGA TGGGTCTTTT GCCAAGTTTG AAGGTAGGAA CCCA

SEQ ID NO:253: (Length of Sequence = 293 Nucleotides)

GAACACTCTG CTCAGCCAA GGTGGTGAGG GCAGCTGTTC CTAAACAGCG CAAAGGCAGC AAGCCACAGT CCCACAAGCC
TCAGCTACC CGTAACTGC CACCAAGAA GGACATGAAG GAACAGGAGA AAGGAGAAGG GAGTGATAGT AAGGAGAGTC
CAAAAACCA ATCAGATGAA TCAGGGGAGG AAAAGAATGG AGATGAGGAT TGCCAGCGAG GCGGGCAGTA GAAGAAAGGA
AACAANCACA AGTGGGTTC ATTACAAATA GACATGAAGC CTGAAGTGCC CAG

SEQ ID NO:254: (Length of Sequence = 413 Nucleotides)

CTTTTCTTA ATATATTAAT ATTTACCAAG GCAAGACAGT GATTTATGGA CATTTAAATT AGTTTAGCTT TGTTCTGCTG
TTCTAAACA TTGTGTACTG TCTGATAGAC TTTTAAAAA CAGTGCCTTT CCAGGATGAT TTATGATATG CAGTATGTGT
TATAGATGCC CATGGCTTAA CCTTGAAAAG TCAATTAAGT GACACAATTA AGAGAGATAT GAATAGTGGT AGAAAAAGCA
TGTACTCTGG ATAAGTGGG GTAAATCTAG TATTTGTAT TCTGTGAGT AATATGTCA NTAGTATTTT TTAGAAGGTT
TAATTTT TTTT ATGGGTTATA AATTCATGTC ACTCTCTGTC AATGGGTACC ATCAGTGGGA ATGCTNGAAT TATCCATGCT
TTGGGGTTA AAA

SEQ ID NO:255: (Length of Sequence = 376 Nucleotides)

GGGTCCAGG GAGAATCAAT ATATCTAGTA TAGTTTATAT TTGTACCTTC TCTCCTTAAG AGTTACAGTG AGTGACTCTA
CTCCTCAAAT GGAGCACCTC TCTCCAGGAG AGTAAGAAGA TCACATAAAT AGAAAGTGAG CTTTGGACTC TAACAGACAT
AGGTTCAAT TCAACTCTGC TACTTAATAT CCATATTGGT TTGAGTTATT TAACCTTGAC AATCCACACT GTAAATGGG
TAAATAATA ATACCTCTCT CTCAGAAGTG TTACAAAGTT TATATGAAAT AATGTGCTTA AAAAGCTGGG TACATAGTAG
GAGCTTAGTC ATTGTTTATT TTCTCCCTCA TACCATAACA TGTTCATTTC CTACTG

SEQ ID NO:256: (Length of Sequence = 241 Nucleotides)

GTAGAGATGG GCTCACTATK TTGCCCAGGC TGGTCTGAA CTCTGAGGT AGGAGGATCG CTGAGCCTG GGAGACAGAG
GTTGCAGTGA GCCGAGATCA CGCCACTGCA CTCTGCTCTG GGTGACACAG TGAGACTCTG TCTTAAACAA AACAAAACAA
AAAAAGGCCA GGCGCAGGG CTACACCTG GTAATCCAG CACTTTGGGA GGCCAAGGTG GGTGGATCAC CTGAGGTCAG
G

SEQ ID NO:257: (Length of Sequence = 406 Nucleotides)

CAAGGGTGTCT CTTGCCAGA TCACTGTAA TGATTTGCCT GTGGGACGCT CCGTGGATGA GGCTCTGCGG CTGGTTCOGAT
TAAGAAAACC AAGAGAGGCC GGGCACGGTG ACTCAGCCT GTAATCCAG CACTTTGGGA GGCCGAGGTG GCGGATCATG
AGGTCAGGAG ATTGAGACCA TCTGGCTAA CACAGTAAA CCCGCTCTCT ACTAAAAATA CAAAAAATT AGCTGGGCAT
GGTGGCAGC GATTGTAGTC CCAGCTACTA GAGAGCTAA GGCAGGTGAA TCGCTTGAAT CCAGGAGGTG GGGTTTCAA
TGAGNCCGAG ATCGTACCAC TGCACTCCAG CCTGGGGCAA CAGAGTANGA CTTCTGAACC CCCAACCAAC CCNCCAACCC
CCCGCC

SEQ ID NO:258: (Length of Sequence = 157 Nucleotides)

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GAAAAGAAGG AAGGAAAGAG GGGAGGGAGG GAGGAAAGGA GAGAGGGAGG GAAAGAAGGA GAAAATGCTG GAGCAAAGGA
GGTTGGTTAC ATGATTTCTC TAATGGCAAT GAGCTGCTTT CTGGATGAAA TACAGAATCA GAGCGAGACT CCGTCTC

SEQ ID NO:259: (Length of Sequence = 361 Nucleotides)

AAGCAGATAT AAATGGGACC ACTGTGAATC AAAGGGGAAA AATTCCAGGA AAAAAAATT CCAATAGCTT CACAGTTTAA
CTGAGGTTTT GGAAAACTT AAGTGAATTC AGCTGATGTT TGAAATATCT GTCTACATTT AATTAGATGT GTTGTATTTA
CCAAGGAGGC ACAAATATGT AGTTCTGTAG ATTTTAATAC TAACTTTTCC AGTAAGAAAA ATAATACCAG GTGATTTCAA
AAAGGGCAGT GATCTATAAA CACTCAAAT GCATCTTTGA ACAGGGGAGC AGAAATAGCT AATTTAATGA AAACAAACCT
TAAGCACTTT ACTTGGCTTC TAATAAGGCA TCCCAAGAAA A

SEQ ID NO:260: (Length of Sequence = 349 Nucleotides)

CAATACATGT ATACAGTGA CACTGATCAA ATAAGAGTAA TTAGCATATT TATCACCTCA TTCTTTTGT GGTGAGAACA
TTTAAATCC TTCTTTTGT CTATTTTGAA ATATACAGTA CATTGCTATT AAGTATAGTC ATCTGGCTGT GCAATAAAAC
ACCAGNACTT ACCCTCCTG TCTGTGACTT TGTACCTGT TCACCACCCC TCCAATCCTC TAGTAACCTAC CATTCTACTC
TCTACTTCTA TGAGCCTGAC TTTTAAAT TCCACATGTA AGTGAGATTA CATGGTATTA TTCTCTCNGT GGCTGGCTTA
TTTCACITTA ACATAATGTC CTCTAAATT

SEQ ID NO:261: (Length of Sequence = 415 Nucleotides)

GGAAGATGAG GATCTAGGTG TGAGCGTGCA GAGCCTGAG GCTGGGCAGG CAGGGAGCTC TGCCTGCACA ATGATGTAGC
CATGTGTGGC CACACCAGCA CTGGGCAGCA CCTCTGGGA GGGGGCAGG GCAAGGACAA CTGGAGAGAC AAAGCCAGAT
GGGGCCACGT CCTTAGAGT GTGTGTGCAC GCACATGTGT GTGTGTGTGT GTGTAATACG CAGGGCAGAA ACACACCATG
TAGGTCAGGC AGGACAGAAA CACATCATGT AGGCCAGGC TGGTGGCTCA GGCTGTAAAT GCCAGCACTT AGGNAGGCCA
AAGTGGGGG ATCACCTGAG GTCAGGAGTT CGAGACCAGC CTGGCCAACA TTGCAAAACC TCATCTCTAC TAAAATTCTA
AAATTAGCCA GCGT

SEQ ID NO:262: (Length of Sequence = 382 Nucleotides)

GGCATGGGT CTGGCTTAA TGIGTAACTG ACGTGGGTCA CTGAACTGT TCAGGCTGAT CTGAACTCC TAGGCTCAAG
TGATCCTGCT GCCTTGGCT CCCAAGTGC TGGAAATACA GGAATGAGTC ACAGCACCA GCCGGCTGTG TTTTGTTTT
TGTTTTTAC CCCGACAGT NCTCAGTCAG TCGTTAGCTG GAGTGAAGTG GCGTAACACA GCTCACTGCA GCCTTGATCT
CCTGGGCTCA AGTATCCTT CCATTTCTTC CTTCAGAGT AACTGGTACT GCAGGCCAC GGCACCACAC ATGGCTAATT
TTTAAATTTC GTAGAGACGA GGTCTGCCA TGTCTGCTCA GGCTCCAGCT GTGTATTTCT TT

SEQ ID NO:263: (Length of Sequence = 447 Nucleotides)

TGTATCAACT CAGAATTCC AGAGAGCTCT TCCTGGCTGA AAAGATGTCC AAGGATCATC TCCGGAATGG AAGAGGTGAG
GCCTGTTAGC TTGTGGGCTG CCCAATCCAT CCAACCTTG GCATTGGGAT CAATGTTGAT GAGGACAAGA CCTTCAACAG
TGTCGGGGTG GTTAAGAGCA TATCTGCCA GGATGTAGGC TCCAGCTCCA ACACCAACTC CAATTATTTT AGAGAAATTT
AGGTACTGCA GGACGCAAGG GATCATGTCT GCAAGCTGGT CCAGAGATGG GTACTGATAT CCCAAAGGGA ACACAGGGGC
TCCCTCTTCC ATTCCAGGG CATCCACATG GACCCGACA AAGTTCTGAA TGATTTCTG CATGTCTCG AACTKGAACA
GTGGCTGGAG GAAAGATTTA TAGTTGAGTC CACATCGGT AGGTAAG

SEQ ID NO:264: (Length of Sequence = 317 Nucleotides)

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TTTTCGCTGT CAACAGACAG TTTATTCTAT ATACAAACAC AATTTTGTAC ACTGCAATTA AATAGAATGG AATGAGCGCT
 CCTCCGCATT CCTCCCCGAG TGA CTGGTTT GGCCCGCGGC CACTCCATCC COGAGTGGGA CTGGACCACG GCCCTGGNTG
 CTGCCACTGA TGTGGNGCC TGACCCAC GTCCCTATGC CCGAGGCGCA ANTCGTCTCT CCCGGGGACC CCAAGNCTGG
 NCCACACGCG GGGAGGGCGG GGCCATGGAG AAGGCACTGC AGGGAGCACC AGGCAGAGCC GTGTTGAGGC CGGCCGG

SEQ ID NO:265: (Length of Sequence = 270 Nucleotides)

GCAGAGCAGG TGAAGTGAT CAGGAACCAT AGTTGACAGT TCCAATCAGT AGCTTAAGAA AAAACCGTGT TTGTCTCTTC
 TGAATGGTT AGAAGTGAGG GAGTTTGCCC CGTTCTGTTT GTAGAGTCTC ATAGTTGGAC TTTCTAGCAT ATATGTGTCC
 ATTTCCTTAT GCTGTAAAAG CAAGTCTGC AACCAAACTC CCATCAGCCC AATCCCTGAT CCCTGATCCC TTCCACCTGC
 TCIGCTGATG ACCCCCCCAG CTTCACITCT

SEQ ID NO:266: (Length of Sequence = 297 Nucleotides)

ATGAGGCGAG GCCTGCGAAG TGGCTGGCAT GCAGCAGGTG CTAATGAGTG TTGCAAAGGT GATGTACGC AGGCAGCTTC
 CGTGGCCAG AGAACAATTG CAGAGAAGGG ATAAGTAGGG CTTAGTGACT TTGACGGGTC AATGGAAGAA TGACCCAAAG
 AAGGCTTCAA GGCCAGGCCT GCAGTTCTCC ACCACAAAGG CCCTCACTGA TAGCACCAC TCCCCACAC TCAGCTTTTG
 GGCTTAGGTC TGGGTACCC AGCTAGAAGC CACAGGACCC TGAGGCGTCC GAGGGGT

SEQ ID NO:267: (Length of Sequence = 387 Nucleotides)

CTGTTTTCA TCATGAGCTC GATCAGATGT CTCTCGATCT TCAGACTGGT GGTGCTCTAT AATGTCTGT GCACGCATTC
 TTGAGCTTC CAGGATTTCT GTCTGTCTC TCTGTTATC TACAGAAGAA ACTTTCTCCT TGAGTTCTG TTTCTGTAG
 CGCTTGAAC TCTCTTCTT TTTGTTTGA CGATCTCTCT CTTTCCATCT ACCCTGTCTG TCTTCTGTGA GGTGCGAGGG
 ACTAAGAGAA CGAGATTTCT GAGGTCTGAC AACTTGCTC AAGAGTCTGT GTTTTTTCAT TTNNATCAT CTCCACTGTT
 GTAGGCATCA CTGTCCGAG AATGTTACG CCGGCGCTTT CGGGGACTG TCTAGGGCTG GGACTCC

SEQ ID NO:268: (Length of Sequence = 318 Nucleotides)

CCTGAAGGTT ACCTCTTTGG AGAGAACATG GATCTGAAC TCTGGGCAG CGCCCCGTC CAGTTTCCCT ACCTCACTCC
 TGCCCCAC GAGCCCGTGA AGACGCTGCG GAGCTGGTGA ACATCCGCA AAGCTCCCTG CGGCTGGTGA GGTACAAAGA
 CGATCCGAC AGCCCCACCG AGGACGGCGA CAAGCCCCGG GTGCTCTACA GCCTGGAGTT CACCTTCGAC GCGATGCC
 CGTGGCCAT CACCATCTAC TTCCAGGCAT CGGAGGAGTT CCGAAGCGC AGGGCAGTAT ACAGCCCCAA GAGCCCC

SEQ ID NO:269: (Length of Sequence = 422 Nucleotides)

ACATGCTAT TCAGGCTTTT TGCCCATTTT GAAATAGCAT TGCTGTCTT TTTGCTGGAT ATTAACCCCT TGTCAGGTGC
 ACAGTTTGA AGTTACCTTT TCTCATCTA TAGGTTATCT CCTCACTCTT GATTGTTCT GTGCTGTGC AGTAGCTTTT
 AAGTTGGTG TAATACCAIT GTGTTTCTC TGCTGCCCTT TTAAGTTTCA CTGGGTCAA AGTTTAAAT TTGTGAATTC
 CTATATTTT AGGGCAATTC TCCTGCCACT GTTGAATTA TGCTCAATC TATGCAGTAG AATATTAGTG TGAAATGCTT
 CTGTACCAAT GGAGATGATG CTGGATGGTC TCTATCATAA ACCCATACCT CATCAACACA AACTGCAATT ACACAAGGGC
 TCTATATCAT GGATCTCCAT TT

SEQ ID NO:270: (Length of Sequence = 376 Nucleotides)

GAAGAAGAGC CCAGACCTAG GGGAGTATGA TCCACTTACC CAGGCTGACA GTGATGAGAG CGAAGACGAT CTGGTGCTTA
 ACCTGCAGAA GAATGGAGGG GTCAAAAATG GGAAGAGTCC TTTGGGAGAA GCGCCAGAAC CGACTCAGA TGCTGAGGTT
 GCAGAGGCTG CAAAGCACAT CTTTCAGAAG TCACCACGGA GGGCTACCCC TCAGAACCCC TTNGGGGCTT GGAACAGAAG

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GCGGCTCCT CCCTGGTGT ATATGTGCGC ACGTCTGTCT TCCTGCTTGA CTTTGGGGAT CTCGATGATC CTGGTGCTCC
TGTTGTCTTT CCTGATCCCC TGTCCTCCA GAGATCTTGA CAGAACTGGA GCGCA

SEQ ID NO:271: (Length of Sequence = 346 Nucleotides)

TGTTACGTT CCCTTCTTT GTCTTCTTT TTCTATCTT TATCTACTT TCGACTCTC TCCTTTTCC TCTCTTGTTC
TTTAGCTCA CCTTATGCT TATGACTGN CCCACTAAGA TTCCACGTT GATCATCAAT TTTACGNTA TCTCGACTCC
TACTGCGACT GGCACGATT GTTGTCTAT CCTTGAGCG ACTTCTACGA ATGCTTATGA AAAAGAATCA AGTTGNCAC
CAAATGTTT ATAGCAGTAG GAAATTTCTT TTAGAGACTT CTGATGGGAA ATTTGAAGTG TATGTTGCTA TCAGATCAAG
TGCAGGAGAG GTATAAGGCT ACTGGA

SEQ ID NO:272: (Length of Sequence = 394 Nucleotides)

GTGTGTGTG TTGAGTCGA GTCTCGCACT GTTGCCTGG CTGGAGTGCA ATGGTGCAAT CTCGGCTCAC TGTAACCTCC
GCTCCAGG TTCAAGCCAT TCTCTGCTT CAGCTCTTA GTAGCTGGGA TTACAGGCAC CTGCCAGCAC ACCTGGCTAA
TTTTTATAT TTTNAGTACA GACAGGGTTT CACTATGTT GCCAGGCTG NCTTGAAGTC CTGACCTTGT GATCTGCCA
CCTCAGCCIN CCAAAGTTT TCAGAAATTT TTAAGGAAAC ACTTTTAACC CTTAAGGCTT TCTTTCAAAC TCAGATCCCC
TTACAAATT GATCAGACGT GGCAAAGTT TGCTTCAAAG TTTTGGACT GGGTTTCCAC TTTAGGCTTA CTGA

SEQ ID NO:273: (Length of Sequence = 259 Nucleotides)

CAACCTGTAC CCAGGCTGCG AGAACGTRAG TTTRAGGAGC CGCAGCATGA TGTCGAGCC GGTCTTACC AAAGGRATGC
TGGAGGTGTT TKTGGCCCCG ACCCACCACC CGCACTGCTC GGCGATGAC CAGTCCACCA AGGSCATCGA CATCCAGAAC
GCTTATTTA ATGGAGTTGG CGATTTACG GGTGGGAGT TCTCTGAAA TCCTGTGTAT TTCTGTGTW ATRACTATTT
TGCTGCAAT AATCCACG

SEQ ID NO:274: (Length of Sequence = 348 Nucleotides)

TCCAGTTGT CCGATTGTA ACTCAAAGG TGAATATCA AGGTGTTTT TTTCATTCCA TGTCGCCAGT TAATCTTGCT
TTCTTGTGTT GGCTGGGATA GAGGGGTCAA GTATTAAAT TCTTCACACC TACCTCTCT TTTTCCCTA TCACTGAAGC
TTTTTAGTGC ATTAGTGGG AGGAGGGTGG GGAGACATAA CCACTGCTTC CATTTAATGG GGTGCACCTG TCCAATAGGC
GTAGTATCCG GACAGAGCAC GTTGCAGAA GGGGACTCT TCTTCAGGT AGCTGAAAGG GGAAGACCT GACGTACTCT
GGGTTAGGTT AGGACTTGCC CTCGTGGT

SEQ ID NO:275: (Length of Sequence = 396 Nucleotides)

GTGTGGTGA TTTGGTCTGT GATAAAATG GAGTTCAAGA AACAAACAG AACTACAAG TGCCCCCTCG CCCCAGGTC
ACCGAGTGG CAGGGCAGT ACCGCTGCTC TCAGGCTGCC CAGTGTGGAC CTGCTGTGCG GAATGCTCCT CCTCCACGTC
CCTCGCTCC TGTCGCCAG CCACATGCAC CTCCCTCTA CCTCTGGGAT CCTGCACCA GGTCTGCCCC TGCTTCTCA
GGCTGCTCC TTTTGNCCA CAGGACCTCA GCTGGAATGT TGCCTCTCC AAGAGGCCCTT CCTGACTATT CAGCTCACAG
TGCCACCCA GCCACAATCT GCCATGTGCT TTGGGGGATT GTCTGTAAAC TGCCAACATA CTGGCAGCCC ATAAC

SEQ ID NO:276: (Length of Sequence = 381 Nucleotides)

GGTGTGGGG AGGCTGCGA AGGGGGCGAG CCGGGCAGC CGGCGCAACC CCGNCCCAG CGGCACCCAC CGCCGCCCCA
GCAGCAGCAC AAGGAAGAGA TGGCGCCGA GGCTGGGGAA GCGTGGCGT CCCCATGGA CGACGGGTTT NTGAGCCTGG
ACTCGCCCTC CTATGTCTG TACAGGGACA GAGCAGAATG GGCTGATATA GATCCGCTC CGCAGAATGA TGGCCCCAAT

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CCCGTGGTCC AGATCATTTA TAGTGACAAA TTTTAGAGAT GTTTATGATT ACTTCCGAGC TGGTCCTGCA GCGTTGATGA
AAGAAGTGAA CGAGCTTTTA AGTTAACCCG GGATTGCTAT TNAGTTAAAT GCAAGCCAAT T

SEQ ID NO:277: (Length of Sequence = 206 Nucleotides)

TTAATACGAC AGGGCTGGCG CCCGAGTAAT TCAAGCCCTT CGGAAGTGTG ACCGGCTGCC AGGCCTCGGA TGCAATCCTG
GAGGCGGGAG ATTGCGCCIN AAGACTGGCT CGAGCCGCC AGGGGCTCCA TGGGAGACTA ACGCGGAAGT YCCAGCCGTC
CCAGTGCCGT GACGTCCCCC CTGGGTGGGG OCTGCACCCG ACTACT

SEQ ID NO:278: (Length of Sequence = 260 Nucleotides)

ACCTGTAATC CCNGCACTTT GGGAGGCTGA GGTGGGCAGA TCACGAGGTC AGGAGATAGA GACCATCCTG GCTAACACGG
TGAAACCCCA TCTCTACTAG AAAAATACAA AAAATTAGCC GGGCATGGTG GCGGGCGCCT GTAGTCCAG CTACTCGGGA
GGCTGAGGCA GGAGAATGGC GGGAACCCG GAGGCGGANT TGCASTGAGC TGAGATGCGC CCGTCTCTCC AGCCTGGGCA
ATAGAGTGGG ACTCCATCTC

SEQ ID NO:279: (Length of Sequence = 308 Nucleotides)

GTGTCGGGGC TCAGGGTTGG CCAGCTTGCA GAGGAGCAAG CTAGTAGAAA TATTGCAGGG TTCCCAAAC CAGGTCAAGC
AAGATGCCAT GTCACCCCTG AGCATGCTG TCTTCCGAGG GTGTACCTC TTGGCTGGCA AAGCCAAGGC CAGTGGGNAC
TTGTATAAAT CACATGGGTA TGTTCCTGGT TCAGTGATCT TGGAGTGATG ATGGTAACTN ATGAACAGAG AACTTTYYAG
AACTTKGGTC CTGTCTTCTT CCCGAACTT AGACAAGTTT CACCCCTCTT CCGTACCCA ACCCCATT

SEQ ID NO:280: (Length of Sequence = 402 Nucleotides)

ATTTTAGCAG CTTTCTTGAA ATTAAATA TATGTGTAAG TATCTCATTT ATATGCATTT CTAGTTTCTT TATACAACAG
AATAACTTCT TTTACATCAA ATTTCTGAAT TTGACTAAAT TTAGAAATAA TGAATCTCA TCCATTAAAT ATAGTCATAG
AAGGAAGGAA ATATGAAAT TAGGATTCA GATGTTTGAA CATAAAGAT AATTTTAAAC ATTGTCAGTA ATCTATTTCT
TTTTTTTTTC GAGACGGAGT TTTGCTCTGT CACCCAGGCT GGAGTGCAGT GCGCGGTCT TGGCTTACTG CACCCTCTGC
CTCCAGTTC AAGTGGATT TCTGCTCG NOCTCTGAG TAGCTGGGT TACAGGGCA TGCCAACATG CCGGGCTAA
TT

SEQ ID NO:281: (Length of Sequence = 313 Nucleotides)

GAGAATCCGT CTTAAAAAGA AAAAAAGAAA ATTATAGAGG GAGATGAGGT GGGACAGAGT CTGGCAGTTC ATCAGGGGGA
CTGAGAAGGT GGCATTGGA GGAGAGGAGG CAGTGAGCTG TGCAGTGTCC AGGCAGCCAC CCTTCCAGC GGCCACCATG
ACGGTGTCTT CATGCTTTA ACCATTAGTA ATCATTCATT CATTCAATCA TTTATCCGAC GTCAGCTGGA GNCCTGCCC
GNGGGGCATG CGCTTAGATT TNGGAGGCCT TCGGGATGC TTGCGCTCCA ACGGGGAAG GCGACTTGG GCT

SEQ ID NO:282: (Length of Sequence = 217 Nucleotides)

TGACCTCAGT TGATCCACC ACCTTGGCCT CCCAAGTGC TAGTATTATG GGGTGAACC ACCATGNCCA GCGAAAAGC
TTTTGAGGGG CTGACTTCAA ATCCATGTAG GGAAGTAAAA TGGANGGAAA TTGGGTGCA TTTTCTAAGG ACCTTTCTAA
CANATGGCTA TAAINTAAGG GGTTAGGGT CCTTTTTTTT TTTTCAGGA TACATT

SEQ ID NO:283: (Length of Sequence = 327 Nucleotides)

TAGAGAGCGC TTTACTCCTG GTCCCATGGC GTAAAGATGT GGCTGGGCCT GACAAGGCTC AGCCTCCAGT CTTAAGATGG
GCACAGAAG GCAAGAAGTA AGATGACGAG TCCAGAATT AGGACAAGCC ATGAGCCAAG GCCTGGTCTG AGCAAGGGCA

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GCCCCCTGTC CCAGACACAG GCACCCCCAA TCTCACTTTG GACAGAGCCA ACGTGGGGGG ATCTCCCGG GCCTGGGCCT
GTCAAGTCTG CCTGCAGGAC CCTGCCATTG TGCTCAAATC ACAACCAITTT TTTGCTTCCA ACATTTTAGG GTGCTTGTC
AGTGAGT

SEQ ID NO:284: (Length of Sequence = 340 Nucleotides)

CTTTGGAAAT GTAAATTGTT ACAAACITAC TTTAGAGCAA ATTTAGTCAT CCTTCAAAAA TTAAATGTA TACTTATTTT
CTAAGAATTC GTTTGGCTCA CACAATTGTG AAAAGATAGA TGTACACCAG TGTTCATTAC AACAAATTATG CAACAAATCT
ATTATGTGCC AGACATTATT CGGAACCTG GGAATACATA AGTGAACAAA GCAGATTCCT GATCTCAGGA CCTGGGGTCA
GGGGTCAGGA GAAGCCAAAA AACACGCTNG AGAAATACTT TATGCAGTGT GGGGGGAGTG CTACCAGCAG AGCAGGGGAT
GGNGATGTGA AATCTTGTTG

SEQ ID NO:285: (Length of Sequence = 335 Nucleotides)

GACATTCACG GAGGTGGGTT CGACCTCCGG TCCCCCACC ATGACAATGA GCTGGCACAG TCGGAGGCCT ACTTTGAAAA
CGACTGCTGG GTCAAGTACT TCCTGCACAC AGGCCACCTG ACCATTGCAG GCTGCAAAAT GTCAAAGTCA CTAAAAACT
TCATCACCAT TAAAGATGCC TTGAAAAAGC ACTCAGCAG GCAGTTGCGG CTGGCCTTCC TCATGCATC GTGGAAGGAC
ACCCGTGACT ACTCCAGCAA CACCATGGAG TCAGCGCTTC AATATGAGAA GTTCTTGAAT GAGTTTTTCT TTAAATGTGA
AAGATATCCT TCGCG

SEQ ID NO:286: (Length of Sequence = 399 Nucleotides)

GCACAATTAT TAAAAAGAGG CCACITAAAT TCAACTCTCC ATGGATACAG TGCTGTGGC AATGTTAAT TAGAGATTAA
AATTGAGGAA TTGAATAATT GAGGTGTCTA ATGAATTGA AAACTCAGCA AAGCAAGGAG AGCTGAGCGT TTTTCCGACT
TAGCTTTTCT TTCTCTAACC CTTTCTCAT TTCCTACTAT TATCACAINT CTGGCCTTGA CTGCTGAGTT TATTACTACC
CATAACCTG GCCTAAGTGG AAACAAAAA GCTGTAGCCT CTTTGTCTGAG CTCCTGGAGA CATTGTGTCT ATTGGATTTA
TGACATGTT AGAAGCTTGC AGTTGCAGGA GGCTGACAA TATGAAAATG AGATATGNTG GGCCACCAG CTTTCTGT

SEQ ID NO:287: (Length of Sequence = 294 Nucleotides)

TTCCAGTTGA ATTCAACAGT GGACAAAATG AGGAAAACAG GTGAACAAGC TTTTCTGTGA TTTACATACA AAGTCAGATC
AGTTATGGGA CAATAGTATT GAATAGATTT CAGCTTTATG CTGGAGTAAC TGGCATGTGA GCAAACTGTG TTGGCGTGGG
GGTGGAGGGG TGAGGTGGGC GCTAAGCTTT TTTAAGATT TTNCAGGTAC CCTTCACTAA AGGCCCGAA GCITAAAGTA
GGACAACCAT GGAGCCTTCC TGTGGCAGGA GAGACAACAA AGCGCTATTA TCCT

SEQ ID NO:288: (Length of Sequence = 391 Nucleotides)

TCTACAGATG AGGAAAGCAA GCCTCAAGCA AGGGGGGCCT GATCCTTTCC CTGTTCCCTG TGTATTCCCT GTCTGTGGCA
AAGCCCATTT CCTTGATTCT CTTCTCTTAA CTTTCATGTT GAGAAGTAGT TTCCTTCTGC AGTTTATTTA ATTTACTGGC
AAAATGACGT ATTTTATTTT CAGCAATGTT TCAGCTAGAT ATTTGCTTTA TGCAATGAAT GTCATGAAG TACTCATAAG
TTTTCAGAA ATGACTGATA TAAATCATGT GTTCCACTAC ATAGTCTAAA TATTTAGTAT TTGGTCATCT ATTTTAATAT
GTTCAAATTC TGTAAACAA GNCATAGTCA CTATGTGAAG ATAAAAATAG NCAAGTTGC ATTATGACTT T

SEQ ID NO:289: (Length of Sequence = 198 Nucleotides)

CTTATATTCT ACTTTATTTG GTAAACTCA GAAACTAACA ATTCACATCC TCCCACCTTC TTTTTCOGA AGAAGGCAGT
TTGCAGAGAC AAAAGGGCTG TGGCGTGGGG ATCATCCACC ATCTCCAGGT TTTACACCCA GGCTACCCAT GGCTTGGCAG
TCAGGCTCT AGGCTGATTG CTCTCAGAG CAATAGAA

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SEQ ID NO:290: (Length of Sequence = 353 Nucleotides)

GGTTTTCATC TTCGGTTTAC AAAAGTCCTA CTATTTATTT ATTTTAACTT TAATTTAAAT ATCACCTACC TTAGGTAGAA
GTTTTCCTTT GGTAAATATA ATATAAAACC GACATTTCTT GGGGGCATAA TAGTAAAGAT GTTAAACATTT TTGGTTCCTT
TTTGGATGCT GTATTTGTGC TTCTTCTGAA AGTGATGTGT GCCAAGATGG CTCATGTAAC CCAGTTTGA CTAGGCTATT
GATATTCTGT CTGGTTAATT TATTGAACTG GCTTAAAGCT ATACATATTT CCTTTAGNIGTAA GATATTCTAG
ATATATTGGT CTACTGATTC ATAATATCAC TGG

SEQ ID NO:291: (Length of Sequence = 163 Nucleotides)

CCTGGTAGGC CTGCTACACA GTCCTGCAAC GNCCTCGTG CTGGGCTTC TGCGGTGAGG CAGGGGAGTC TGCTTGTCCT
AGATGTTGGT GGTGCAGTCC CAGGACCAAG CTTAAGGAGA GGAGAGCATC TGCTCTGAGA CGGATGGAAG GAGAGAGGTT
GAG

SEQ ID NO:292: (Length of Sequence = 397 Nucleotides)

ACGGGAAGGT GAGTATGINA GTATGINTGC CAGACAATGG TGTTTCCATG TCAATGGAGG TTTCTCAGAG AGAGGTGATC
TGGCTGGAGA AAGCTTAATC TGGTGGCAAT GGACAGGTGA CTTTAAGAAG TGGGAACGA GGAAGGAGG CCAGTTTGAA
AATNATAACA AGGGTCCAGA CTCAGTGATG CAGCAGTGAC CATGAGAACA GAGCAGCTGC AGGTAGAAGA TGGAGACAGA
ACTNGGGAGA TCTGGTGGAG GTAAGCCGCG TGGAAAGATG ATGTCAGGTT TATACCTAGA GGACACATGA TCCATTCACA
AAGCCAGGGG NAACCTAAAG AGAAAACACT TAGAATTTTN GGAGAAAGG CTAGGGCTGG GCCTTAGACA TGGGCTG

SEQ ID NO:293: (Length of Sequence = 360 Nucleotides)

GAGGTAAAT TTACATACAG TGAAATCCAA ATCTTAAGTG TACCACTAGA TAAATTTTGA TAAATGCATT ATGCCTGGTC
TTCACACACC CTTTTCATA TATAGAAAAT NTCAGATAA TTTATTTTGT TGTTTTTTTC ACACACTAAG TTCTAGACTT
TTCCAGGTCC GAGGGAATA TTAGGGGGA AAGTACTGT NATAGTAAA AAGATTTTAG GTGTGTTTGT TTTTAAGGTG
CAGAAACACA TCGCAGATTT AAGGTCTGCA ATCTCTGCTT TTTGTTATTG TTCCAGTTTT GATCTCAGTG ACATTACAAG
CAAGCAGAAA CACTCAGACA TGAAATGGCC CAG

SEQ ID NO:294: (Length of Sequence = 321 Nucleotides)

TTTTTTTCAG GNTTCAACCG TTTTATTGGG AGGTTTTGTT TTCTGTGAAA TACACTAGAG GGTGGGGAAG GGGACACATT
CAGTTTGCAA GATAAGGGTT TCCCACCACT AAAGGAAAGG CATGGGGCAG GGCACACTGG GGTITGGGTC CGTTTTCCCA
CCTCCTTCG CTGGCTCAC TTTTCTTTTC TCTCAGCAAG TACCACAGAA CACAAAGACA AGAAACAAA CAGCAAATCA
ACCTCCAACG GGGCCATGCC AAGCCTTCCC CACTCCCCCA GGCTGGGCAA GGGCTGGGAG GGGGCTGGG CAGCTCACTC
G

SEQ ID NO:295: (Length of Sequence = 165 Nucleotides)

GACACACAGC GCCTCCGGCC CCGCACAGG GGCATGTCCA GAGGTGCTGT GTGTACCAA CTGGTCTTCT AATTTGGAAG
GAGTTGGAAA GGCTTTTGTG TTGATGAAAA GTTGGAAACA GTGGCACATA TCTNAGAGG AGGAACGAGG CAGCGTGGTG
AAGCG

SEQ ID NO:296: (Length of Sequence = 315 Nucleotides)

CGAATACAGG TAGTGCCAG CTGGTTGGGC TGGCCAGGA AAATNCTGCT GTGTCAAATA CTGCTGGCCA GGATGAAGCC
ACAGCTAAGG CTGTGTGGA GCCCATTCAG AGCACCAGTC TAATTGGGAC TTAAACCAGG ACATCTGACA GTGAGGTTC

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AGATGTGGAA TCTCGTGAAG ACTTAATTAA AAATCACTAC ATGGCAAGNA TAGTGGAACT TACGTCTCAG TTGCAGCTGG
CTGACAGTAA GTCAGTGCAT TTTTATGCCG AGTCCGAGC ACTGTCTAAA AGACTNGCCT TGGCTGNAAA GTCTA

SEQ ID NO:297: (Length of Sequence = 244 Nucleotides)

AGTACGGTIN NCGCTNAAGC TTGATNATCG RATTGCCAAT CINCATAITTT GTGTTAGAAT CATTTGTTTT TGTGTCTTCA
TGTTTCTATA AGATAGGACC AATATTCTTT ATTGGGCTTT GATTTTATTT TGTAACTTAA ATGTATTAAAG GCAATAAATG
TAATTTTCCA CINAAAATA TCATTATAGA TTGTTTACT ACCTACTGCT CAGCAATTTT TTTTCTATC AAAATCTCTC
CTGG

SEQ ID NO:298: (Length of Sequence = 152 Nucleotides)

CCTGAACAGG TAATGAGAAA AATTACACA CAAGTGATTT TGAAAACAGA ATGGGTTGCT TACAAATTAC AGGAAATGTT
ATAACACAAA CCAGAAGAAT TCAATGGAAG GCAATAAGGAAAT GAAAATTATA AAAGTATCAN GA

SEQ ID NO:299: (Length of Sequence = 374 Nucleotides)

CGATGTTTTT AATGTCATCA CACGTGTCT CAAAATGAGT GGTTGCATCA TATGTGCGGG AAATAAAGAT CTGGCTTTCT
GTTCCCAAGT CTTTGGTAC CAGGAGGTCA CTGATGCTAA CAAATTTCTG TTCAATTGGT TCCAAGAGCT CCAAAGCTGG
TCTGATTTCC TTCTCAGGCT CCTTGGTTTC CACAGTTGTA CTAATATAG CAATGTAATT CCCTTGTGCT GCTACATTGT
GGCAAAAGGA GATCATGCAG ACGTAGATAT CTGACTTTCC ATTGACTTTG GTTCTGTGGA ATAATGATCT GGCAGGAGTT
GGCATCATTG GTGTTCTTTG ATGGGGGTGG CTGAGGGATG CAAATAACCT CTG

SEQ ID NO:300: (Length of Sequence = 365 Nucleotides)

GGCTCACCAA GCTCAGCAAG TACGTGTACT TCTTCGAGGC CTGCGGCTG CTGCAGAAGA TGATTGACAT CTCCCTGGAT
GGCTTCTGCT TGACTCGGT GCAGAAGATC TGCAAGTACC CTCTGCAGCT GGCCGAGCTG CTCAAATACA CGCACCCCCA
GCACAGGGAC TTCAAGGATG TTGAAGCCGC CTTCATGCC ATGAAGAACG TGGCCAGCT CATCAACGAG CGGAAGGGTA
GACTTGAGAA CATCGACAAG ATTGCTCAGT GGCAGAGCTC CATAGAGGAC TGGGAGGGAG AAGGATCTCT TGGTCAGGAG
CTCAGAACTC ATCTACTCGG GGGGAGCTGA CCTCGGGTTA CACAG

SEQ ID NO:301: (Length of Sequence = 224 Nucleotides)

GGTATTCAAA CAAATAGCCT GAGAATTING GGGGATCTG AAATAGAGTA CTATGCTATG TTGGCTAAAA CTGGTGTCCA
TCACTACAGT GGCAATANTA TTGAAGTGG CACAGCATGC GGAAATACT ACAGAGTGTG CACACTGGCT ATCATTGATC
CAGGTGACTC TGACATCAAT AGAAGCATGC CAGANCAGAC TGGTGAAAAG TAAACCTTTT CACG

SEQ ID NO:302: (Length of Sequence = 363 Nucleotides)

AGTTTCACTC TTGTTGCCA GGCTGGAGTG CAATGGCGTG ATCTCGGCTC ASTGCAATCK GCACCTCCG GKTTCAGCG
ATTCTCCTGC CTCAGCCTCC CAAGTAGTTG GGATTACAGG CATGCGCCAC CATGCCCGC CAATTTTKTA TTTTTCGTAC
ACACAGGGTT TCTCCATGTT GGTACGGCTG GTCTCAAAT CCCAACCTCG GTGATCCGTC CACCTCGGCC TCTCAAAGTG
CTGGGATTAT AGGCATGAGC CACTGTGTCC GGCCAGCTCA ACAAATTTTA ATGCTTCTTT CAAGNCTATT AGAAACCTTT
AATTGCTTCT TAAGTTTCTC CCCCAACTAT GGAGGAAGCA TAT

SEQ ID NO:303: (Length of Sequence = 253 Nucleotides)

ATGCAGGAAS ATCTACCARG CAAATCGAAA ACAAAAAAG GCAGGGGTG CAATCCATCT CTCTGATAAA ACAGACTTTA
AACCAACAAR RRTCAAAAGA CACAGAGARG GCCATARCAT AATAGTAAAG CGGATCAATT CAACAAGAAG AGCTAACTAT

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CCTAAATATA TATGCACCCA ATACAGGAGC AACTAGATTG ATAAAGCAAG TCCTGGAGGT GCCTACAGAG GAGGCTTAGG
CTCCACACA TTA

SEQ ID NO:304: (Length of Sequence = 416 Nucleotides)

TTTTTTTGTAG ATGGAGTACT CGCTCTCTTG CCGGGGCTGG AGTGCACTGG CGCGATCTCG GCTCACCTGC AACCCCTGCC
TCCCCAGTTC AAGAGGTTCT CTTGCCCTCAG CTTCCCGGGT GGCTGGAAAT GCAGGCACAC ACCACCATGC CCAGCTGCTT
TCTGTATTT TTATGGGAGA CGTGGTTTCA CCATGTTGTC CAGGCTGGTC TTGAGCTCCT GACCTTAAGT GATCGGCCAG
CCTTGGCCTC CCAAGTGCT GGGATTACAG GCGTGAGCAC CGTGCCGAGG CTGTTTTTTA ACTGACTTTG GATTTTACTC
CCTTCTATG CAAATTTATT TTAGAATCTG TTCCCTAAC TTAGGGGGT GGGTTAGACA AGTTTCAAG GAGCCTCAAG
TGKAAATGCT TTAAGG

SEQ ID NO:305: (Length of Sequence = 223 Nucleotides)

CACACCCAGC TAATTTTGT ATTTTATGTA GAGACGGGT TTCACCATGT TGGCTTGGCT GGTCACGAAC TCCTGGCCCTT
GAGTGATCCC CTTGCCCTCAG CTTCCCAAAG TGCTGGGATT ACAGGTGTGA GTGAGGTGC CCAGCCAGA TTTTATTGTT
TTAATTACAA ATTTTACGTT AACTGATTCT GCACATTAT ATTTGCACAC TTGTGCTAGT GAG

SEQ ID NO:306: (Length of Sequence = 169 Nucleotides)

GTTTTGCCAC ATTGGCCAGG CTGGTCTGA ACTCCGACC VGTGAGCCA CTTGCCCTGG CCTCTCAAAG TGCTGGGATT
ACAGGCGTGA GCACACGCC CGACCCATAG CTCTTTACAA CTGCCCTGTA AAGAAAGCAT CATTTGGCAC TGTAGTATT
TCTCTTGAA

SEQ ID NO:307: (Length of Sequence = 303 Nucleotides)

GATTTGGTAC AGAGTATGTC AGGAAGACAA CTCAGATTGC CATTTTAAAT AAAGTTGTAC ATGAACAATA ATTGGAATCA
TCAGGTAATT TTTTAAACA AAGGTTCTTC ATTTACTGTT ATGATTGGAA AAAAAATTAG AAAATAAAGT AAGTSCCATA
GGCTAATTAA AAAATAAAAC CTTGGCCGGG CGCGGTGGCT TACGCCTATA ATCCAGCAC TTTGGGAGGC CGAGACGGGC
AGATCAAGNG GTCAGGAGAT TGAGACCATC CTGGCTAACA CGGTGAAACC CCATCTGTAC TTG

SEQ ID NO:308: (Length of Sequence = 143 Nucleotides)

ATCTAGGAGG CTGAGGTGGG ATCGCCCGAG TACTGGAGGT CAGGGCTGCA GTCAGCCATG ATCATGCCAC TACACTCCAK
CCTGGGTGAC AGAGTGAGAC CCTCTSTCAA AAAACCTCAG TCAATVCAA CATACAGTAT ATT

SEQ ID NO:309: (Length of Sequence = 199 Nucleotides)

CCACCCCTCA TAANCCOCAC TGGGGAGTCT GGGGCTCTT ATTGCCATGT GCCTGGAATN ATNATATGCT CATCACTTTA
TGAAGAATAA AATTTGINTT TCTGCCCTTA AGTTACATT CGTTCTTCCG CTCAAATCCT GATCTGGTCC ATTAAAGAGT
GTTGCGAGAC AAAGTTTCTG AAAGATTAGA GAAGAATCC

SEQ ID NO:310: (Length of Sequence = 426 Nucleotides)

TCCTGTACC ACCTCTTCCT GAATACGGAG GAAAGTTG TTATGGACTG ATCCCTGAGG AATCTTCCA GTTCTTTTAT
CCTAAACTG GGTAAACAGG ACCCTATGTA CTGGAACTG GGCTTATCTT GTACGCTTTA TCCAAAGAAA TATATGTGAT
TAGCGCAGAG ACCTTCACTG CCTTATCAGT ACTAGGTGTA ATGGTCTATG GAATTAAAAA ATATGGTCCC TTTGTGTCAG
ACTTTGCTGA TAAACTCAAT GAGCAAAAAC TTGCCCAACT AGAAGAGGCG AAGAAGTTCT TCCATCCAAC ACATCCAGAA

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TGCAATTGGA TACGGAGAAG GTCACAACAG GCACIGGTTT CCAGGAAGCG CCATTACCG TTTTMTATGG GCAAAGGGA
GTTACATTGG CTATGGCTTT TGAAG

SEQ ID NO:311: (Length of Sequence = 489 Nucleotides)

TCGACTCGGT CCTGGATGTG GTGAGGAAGG AGTCAGAGAG CTGTGACTGT TTCCAGGGCT TCCAGCTGAC CCACTCTCTG
GGGGGCGGCA CGGGGTCCGG GATGGGCACC CTGCTCATCA GCAAGATCCG GGAAGAGTAC CCAGACCGCA TCATGAACAC
CTTCAGCGTC ATGCCCTCAC CCAAGGTGTC AGACACGGTR GTGGAGCCCT ACAACGCCAC CTTMTGGGTC CACCAGCTGG
TGGAAAACAC AGATGAAACC TACTGCATTG ACAACGAGGC CCGTATGAC ATCTGCTTCC GCACCGTGAA GCTGACCACC
CCCACCTACG GGGACCTCAA CCACCTGGTG TCGGCCACCA TGAGCGGGGT AACACCTGCT TGGCTTYCC GGGCCAGCTG
AACGAGACCT GGCAAAGTGG CGGTTGACAT GGTGCCCTTC CTGGCTGAAT TTTAATGCC CGGTTTGGGC CCTACCAGCC
GGGAAGCA

SEQ ID NO:313: (Length of Sequence = 302 Nucleotides)

CTTCTCATGC CAGTCTAATG ATTGTTTTTA GAAAAGGATA TACATTGACC TTCAATGTAA TAAGAAATGC AACACTTTAC
GGTGCCAAC TGCTAAGATT TATTTCCAAC TTGTGAGACA CAACTATTTT GCCCAATCCA AATCAAAGGG AATCAAGGCT
GTGAAATCCA CACAGGACAT CAACGCACAC ATAAATGAAA ACTACAGATG TGTGAGAGGC AACCATATAC ACACAAATAA
TGTAACACT AAATTCCATG AAGTAGCTGT CCAGGAATA CTTTCCAAT AACCTCAGC AG

SEQ ID NO:315: (Length of Sequence = 339 Nucleotides)

CGCGTATTT AAATTGTGAA AAATAATGAA TATTAATTG GAGCATAATA TTAAATACA TGAAAAAGC TGGCTGGGAA
ATGTTGGCAT GACITTTCCC AGATGTAGC ACTGCTTCAA CTTTGTAGAG NGCACTCTGA GTGTAGTTT ACTAGACTGA
CATTACTAAA ATCATTGGTG CTATAGAGGC AGGAGAATAC GGGGAATAAG AAAGCCAGTT GCAAGCCAAC AATCTTAAAA
CTCTCCTTT TGCCATGGAC TGACGGCATA TTAAATGAGA TCATGCATTT TAAGNATTA ACAGTGATCA CCATATGTGC
GTGTTCCAAT AAAAGGAAG

SEQ ID NO:316: (Length of Sequence = 430 Nucleotides)

TAAGTGGTG GTGCTGTCT GGATGCTTCC AGTGGGCCCC GACCAGGTCT GGACAATGCC TGGGCCCCGT CCCCCGCCCC
TCTCTACAC ACACGCAAGA NITCGGAGCT CCATGGGGAA CAGAAGCAAG ATATCCGTAA AATCAAAGTC TAGGGGGTGG
GAATGAAAAG GGAAAAGTGA GGAACGGGA GCCAAACCCA GGAAGACGCC TCTTTTCTG CACATTCCCT CTCCTTTATA
TACTCAGCTC TTGGCTGTCT CCAGTATGTA CCCACCTGG TCTTCCAAGC TGGGAGCCAC TTTTATAAC ACAATCACAG
TTTCACAAAC CCCAGGAAGG TTCCATGTGG NGAGAGGTTA AGTTTCGNCC TTGTCCGGGG AATTATGACA CTCAGAATAT
CCCCTTGGT GTAAATGGAA GACAACCTTT

SEQ ID NO:317: (Length of Sequence = 317 Nucleotides)

GTTAATGCTT CTNATACCTA ACAAATCCIG GAGGCGAGNC AGCACCAACA CTCAGGTGTC TGGGAAAAGG TGGTGAGAG
ATCTGAGGCA TCTCGGGGCG AGGGGAGGGC TGGGAAGGCA GGCTGGCTNG GACCCTCGCA TCTTAACCTA ACCTTGACCC
TCTTCCATG AGCAGAGTTC CGATGCCCTG GAAGCCTGGG AGAGTGGGGA GAGATCCCGG AAAAGGAGAG CAGTGTCTAC
CCAAAAACAG AAGAGTGAGG CTTCCAGGGT GCAGCAGGGG TGGGAGGTGA TCAAGCAGCG TGGGATTGT AAGCCCC

SEQ ID NO:318: (Length of Sequence = 407 Nucleotides)

CTCGCCCCG ACCTTCCCCG CCTATGCCCC TCGCTGAGAT AGGCCCTTCC CTCTCCGGG AGCCTCCCCG GCCACGGAC
CCTCAACTTC TCCAGCCGCT CCACCCAGC TTCCTGGACC GCCTCCTGCA GCGAGGCTC ACATCCAGCA CTGTCCCTTA

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CAGTCGCCAT GCCCTGGCG ACCTCAGTGT CCCACTCTGT AAGGGGACAA TGCAAATCCC TTTCCTCAT AGGGTGCATG
 TGCCAGTNTT GATAAAGTGC TGGCCACAGG CCCTGCCTTC CCAGGGCTCA CAACACTGTG TCCCTGACAC ACCCGTGGGC
 TGTAGTGATT CINTTCATGG GGATTGACT ATAACNGCA GTCAGGAATG AATTTACAN CATAGCTCAG TACATACACA
 CATATCT

SEQ ID NO:319: (Length of Sequence = 382 Nucleotides)

CACGACAC CTGCGGTGG GGACAGGACA TGACTAAGCA CAGAGCTTTC TTCTTTTGGAG GCCACGCATG TGGTGCAGAG
 CGGACCACC TGCATCCACA CAGCCCGGCG CACCTGCTCC TACTTCTGCT TAGCGTGTGA GCAGCTTGGT GACCAGGGTC
 TCCACCAGG GGCAGGCCAG GACCGGCTTA CAGCACTTTC TAGGGGTCT CTGGTCCGG GCTGGGACAC ATACAGGGCT
 TAGTAAAGTT CATAGATGGT AGCTAGGCAG CCCCAGGCC CAGGTGACAC CTNTCCCTG CCTGNCCTGT ACTGNCCTGCC
 TGCAGCACTC CTGGGAATCT TGTACGAAGA CAAGGAGAGA CAGGACTTCA TCTTCACCAT CT

SEQ ID NO:320: (Length of Sequence = 368 Nucleotides)

CATCCGGGGC ATGGACAGCC CCGGGGTGN CCGCCCGCNC CCCCCTGCC GCGTCGCGTG CNGTTCACCA GGCAGCACCT
 GGACAGCTCC AGAGTCGGGG AAGCGCCATG GTTCTGCGC AGAAAGGATG CCGGTGGGG CCGGCAGATC CTGCCAGGAC
 TAGGGGCCIT CCTTTCCAT CAGGAGCCTG CAAGAGAAAC AAGAAAACAT TAGAGGGGCT TCTGTGTAGG GGGAGGGCAA
 GTTGAGTCTA TCTTTCTCT TGTAGGTACT AATTAAACAC CTGCTGINTG CCTGGTACTN TGCAGGGTGG GACAGGCATC
 ATAGCAACTC ACAGTGGTCC CCTCTCTTT GTGCCATAG TCTAGTAG

SEQ ID NO:321: (Length of Sequence = 355 Nucleotides)

GGTGGACTGT GCTGTGAAC TGAGCTGAAC TGGGATCAGG AGAAGGAGAA GTGGGGATTG AGCCCCTCAC CTCACACAC
 TCTCTCTGT GCCTGAAATT CCTCCATTAA GCAGCATCGC TGTCCTCTGT AAACACCCAC ATTAAGCCAT TATTCATCTT
 ATGGCTTAG TAGCGTATG TCCCTCAGAT CCTTTCCTGC TGAAAGCGGA TCTGATAGA GAGAAGGGAA GAGAGATGGA
 TGGTCTGGG GACGGCAGGC TGGTCCAAGA GTGGGGAGGA AAGATGTCTC TCGGACTCTN GGGNAAGAAA TATTTTCTGG
 GGAATATGG AGGCACCANA GGCAAGCTCA AGAGG

SEQ ID NO:322: (Length of Sequence = 225 Nucleotides)

CTCTCACTTC TCACAGGCA CCCACAAAGC CCCAGGCAG CTCATCTTT CCAATCCANT CCCATTATCC CAATCTCTAC
 CCCAGGATCC CCCAACTCC TCCACTTCA CCTCTGCCAC AGACCCGCTC GCCCCCAAAC TTCAGCCTNC CCTCATCTGC
 CCTNACCACC CACAGCCCTT CCTACCTAGC CCTCTCCCGC GAGGGGCCG CGGGCTCCCC ACATT

SEQ ID NO:323: (Length of Sequence = 250 Nucleotides)

CTCTGCTCC TGTCCGTGAC CTGTCAGATG CAGGTGACAG CCTGCCCTTC CGTTTTTNTC TTTCAGTCC CGCCTGCCGG
 ATTGGGTTC AGCCCTGCC ACACGCCCGG TACATCCCGC CTACACTCAC CGATGTGCC TAGCAACCCG GCTGCCGCC
 AGCATCCGA ACCGAGTCC CCGCGCTCCA GTTCTCTGNN GGGGAGGAG AGGGGTGTTG CTTCTCCAGC CCCTGCAGC
 CTGGTGTCTT

SEQ ID NO:324: (Length of Sequence = 338 Nucleotides)

GINTTCTAT GCGGATAAAA TTCTTAGGT AAGAAAAGTT AGCTCTGAGC AGCCCTCCGC CTGATACTAA TACTTTACCA
 ATGGAGATT TCTTTTCTT TCTGTCTTT GAGACAGGT CTCACTTGT TCCAGGCT GGAGTGCAGT GGTGCCATCA
 TGGTCACTG CAGCCTCCAT TTCCCTGGCT CAAGCCATCC TCCCACTCA GCCTCCCGAG TAGCTGGGAC TACAAGGTGT

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GCACCACCAC GACTGGCTAA TTTTAAATTT TTNNNTAGAG ACGGGGGTTT CCCTATGTTG CCCAGGCTGG CITGAATTC
TGGGCTTCAA GTGATCCT

SEQ ID NO:325: (Length of Sequence = 461 Nucleotides)

ACTCCAGACT CCTCCAGCTG TCATGGATCC TGGGCCAGGG GATCCCGNAC TCACCCAAAG TGGGGCTTTG GGGGGTGGT
GGCCGGTTCA GTGGTGGAGC GTCTTTTGT CCAGCTCAGA ACCTGCTGCC GGTCCGGTCC CAGAAAAGTT TCTAGCGGGT
GTAGTTGCCA AAATTAGGGT CTGTNACTGC TGGGCTGGCG GTGGGCGCCT CATCCAGCC TTGGAAATCC TTGCCTAGTA
GCGGAAGTT CTAAACAGCA AAGGATACAA GGGCCCTTGA GCGCAAGTAA ATTTCCCTC TTGCAGCAAC AGGTGTCTC
CAAACCAAGC AGCGTCCAGC TGTGTCGCTT GGCTGGAGTT CTGCAGTNGG GTGTGGGGAT TGGGAAGGTG CACAGGCAGC
CGCTTGAGAC CCAGAGGCAG TTNGGGGGAG AGGCCTTGGG CTCAGAGGCC TTTCTTTGTT T

SEQ ID NO:326: (Length of Sequence = 391 Nucleotides)

GGCCCTCCAG TGTCTGCAG AGAGGCACTC TTGCCAAGTG TCATTGATGA CGCAGCTGAA AACCAGAAAC ATTTCACTTT
CCAGCCACGA GACTGCAGCA ATCTGCTCTT TGGACTGCAC TTAGGGAAAC CGAGGCCAG ATAAGTACC CCTCAAAAGC
CCCCAGGACG GCAAATCAA AGGGGCTGAG GTGCTCTGAA CAGCCCCAGC AAATTAAACC ACCTAAGTTT GCGCTACTCC
CACTGCCCTG AAGCAGCCTG TGGTGGGAGG TGGGGGTGGA TACAGTGTAA CAAAGAGAAA CCTGAGTTGT AGCCATAGAT
TGCTAATCAG TAACAAATA TCCCTCTAAA CCCAGTCTG CCTTGAACCC ACAGGCTCAG GATGGTAAAT A

SEQ ID NO:327: (Length of Sequence = 438 Nucleotides)

TACTGACTGA CCCTGG GATTCCAGC CGAGACGTTT CTGCTCCATT CCGGCAGGAG CTACCTTCCC GAGCCGCGCT
TTGCTCAGCT GTAGGAGG TAGAGGGAAA TAAGACAGCC CTCTTTAGGA TGGTGGAGTG GCTAGAAAAG AGCAATCCAC
GCCAAAGGCT TAGCTCAGTT CCTAGACTTA GTAAATGCTC AATAAATGTC TGCCATTGTT ATTATTATTT ATNATGCTTC
CAGCTGGCCT GGAAGGAGGG TTCTGGAGCC AGAAGGGACC TTGGAGAGAC CTCGGTTAAA TCTCTAGCGC CATCTTTATT
TTTAGGATGG AGTAACTTGC TCAGGACCTA CATCTAATCAT TGTGGAGGGG ATGCGGTTTT TAAGTAGGAA TTCTTNGACT
AGACCTCTCA GCAACCTTTT CCTTCCGTG ACAGTGGG

SEQ ID NO:328: (Length of Sequence = 400 Nucleotides)

TTGCCCTCTC GGCCTAGAAG TCTCCATTA TGGTGTGTG TCTGTGGGA CCCACGGGC GCTGCACAGG GAACCATGTG
GCCGTGAACC TCAAGTCNG NCCAGCAGGG GTCAATTGTC TCAGNCCACC CCTCCCTACC CCCAGTATCC TCTCTCCTTT
ATAGATCATC CATTAGTGC CAGACACTGC AGAAGGCACA TTGACTAATA TTAAATATTA GCCCAGCTAC CCTGCTGGGC
TGTCCTTCTT AGAAATGAGG AAGTGGAGGG TTAAGTGGAT TTCTCAAGGT CGTGCAGCTG GTAAATGGCA GAACCAGGAT
TTGAACCTAG GTGTGCATGA CTTCAAAGGA AGACACCACT GAGGCCTCCT CTANTGGGTC TGCTTCCCTA CCGGCCCTGG

SEQ ID NO:329: (Length of Sequence = 227 Nucleotides)

GGCTGGGCTA AACTCCAGAC GCTGGCCACC TTCATAGGGT GGAGATGACA GAACAGGACA GGAGCCATGG GGCTCCCGG
GCGGGTAGGG GTGGGTGATG TTCTTGGCT TGGGGCAGT TACAAGGGTA CAGTGGGGCT TGTGAAGGG CAAAAGTTCT
GTAAGTNGT CCNACAGGC CAAAGAAACC CCAGAGCCGT CTTTCGACTG ACTACAGCCT GGAAGAG

SEQ ID NO:330: (Length of Sequence = 401 Nucleotides)

TGAAAATATA TCCACTGTC AGAGGGACAA CAAAGGCAGT TAGACTGTCC TGAACGGTCC TGCTCAGGC TGAAATTTT
GTAGCACTTG ATCAGTTGCA AAGTATCTT CCTTTAATA TCTCATTTTA TCATTGGGTA TCTGAAGAGG AAGTGAATT
GGGGTAAGAA TTTAGGTTCT TGCCATAGCA TTTGGGTGGC CAGGGTAAGC CTCAGGGTGG AGGACCCCTA AAGAAAAC

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TAAGGATTTT AAGGAGAGTC AACTCTACA TTCATCCAGG CAAACATCTA CTCITCCATT GATTAAATGGN TCCACTCATC
CGTGCAACAC ATTCACTCTT TCATCCATCC ATTCATCCAT CTATCTNCA TCAATCCATC CATGTATCTT TCATTATCC
A

SEQ ID NO:331: (Length of Sequence = 322 Nucleotides)

CCCCAAGTTG CCCCGCTTT GTCTCCAGCG GACTGGAAAG AACCCACCAT TGTGAAGCAC AGAAAATTGC CCGCACTCTT
ATTGGCTAGG TTCCCGGACT TCGCTCTCG GTTGGTGGTT GGCTTTGCCT GTTACCTGTG TTGCCCACTA CCACTCGCTC
CGCGAGCC CAAGGATGGA TOGCTATCCC GTAGCCGGT GTTCGGGAGC GCTGCGGCA AAGCAGACCG CCTTGGGCT
ATTATGGGTT GAGTGGCTCT GACTCTAGA TGGCTCTGT CACTTACTAA TGGGCCGTGT TGCCTTCGCG ACTGCAGGTT
TT

SEQ ID NO:332: (Length of Sequence = 441 Nucleotides)

GGCTCAAGNA ACCTGCATC TTGCACTCTG GCCTTCTCCC AGGCTGAGCT TTATCATATC ATCAGCAGCA ACCTGGAGAA
AATGTCAAC CCAAGGGTG AAGAAAAGCC ATCTATGTAC TGAACCGGG ACTAGAAGGA AAATAAATGA TCTATATGTT
GTGTGGATTC CCTCTGGCG TGTGTATTC ATCAAAAAG CATTATTTGA GTGGCACCTA TGTCCAGCCT GAAGATGAAT
GTGTGGGAA GGGTGGGTG TCACAAAGAC AAAGATGACT TAGATGCCCA CTGTAATCTT GACTGTGAGA AAGAGGGGAT
TCAGGCCCTT TCTCATCCAG TAGTCAATGT GCCATCTCCC CTTCCTAGT CACCTCTTAT CTTCACTTAC CTTCTTTCTT
CTCTGCTTA TCTGTTTCC ATCTAAGGCA AAAAGGGGG G

SEQ ID NO:333: (Length of Sequence = 354 Nucleotides)

AGAAGGTAG ACCGAGTAGC TTGAGCGCCT CTTCGGTTA CCTTTTCCA GCGCCAGAGG GCCTTAGGGT TGGGGTCTC
GCTCAGGCAC AGAGNCCGA CACGAGCGG CGGCTTCCC GGGATCGAGG GACGCGCAG CCAGAGGAGA CGAAAGGAAC
CCGGTCCGA CCAGATCGGA ACCACTGACC ATGCCCCATG CCGGCCCTAG TGAGINTGA TTINGCGGG TTCCGGGGTT
CCGACGGGA CCTCGGAC CCTCACTCA CCGCTTCTC TTINCAGG GNCCTAGNAG CCAGAAATGC ACTGAATACG
TNGTTCGAGT TCCTAAGTAA GTCCCCAGGC CCAT

SEQ ID NO:334: (Length of Sequence = 196 Nucleotides)

CTCCGCTCC GCACCGCCT TTCCGAGCA GGCTACACCT CTCCCTGGG CATCTTTACT GGAAAGCCG CAGNGNGNG
GGAGAAGTA GCNCCGTCTC CGCGCTCCT CGGTCTGCT GGCTGAGCG GGGATGGCT CCGGAGGGAG ACACTCAGGA
AACCACCTCC GCGCTTCCC CATCTTTATC CAGCGG

SEQ ID NO:335: (Length of Sequence = 261 Nucleotides)

TCGAGAGCT GTCTGGGGCC AACGTGCTGG CTGAGTACTA CTGGCTCANA CGCGCCTGC TGGGGGCCCC TGGNAATNTA
AGTCTGCC CGGGCTGTG CGCCTCTC CTTGANAGCC CCTGCTNCC TGGGCACAGG GAAGCTCCA TAGGCTAGTA
GCATCAGT GCCAGGCCA GAGCTTACTG GACTTCCAA GTCTCTATGG GACTAGGGCT GAGGGTACAC ATCTGCTTT
TTTCCAGAA ATAAGTTTTG G

SEQ ID NO:336: (Length of Sequence = 191 Nucleotides)

CGGAAAAGG CTTCGGCCAC ATCCAGCAGC AGTAGCAGC GCAAGNCCG GGACTCGAAG GCCCACCNA GNCGGACTAA
GTGTCCAAG GAGCGGCTT CGGCTACAA GGAACGNCC AAGGCTACC GGGAGGACAA GACCGAGCT AAGGCTACA
GGCGGGGGG GTCCNTCAGC CCACTGGGAG G

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SEQ ID NO:337: (Length of Sequence = 279 Nucleotides)

CCTTAGGGCT CCTCTGACT CCTTCCAACCT CCAAGTCTG CAGCCAGGT AAAGCCAGAG CAGACTNAAG GCAAGTTTTC
AGGAAACCAG GNGGCTTGAT CCAGACTCAC AATCTCCCTG CAAAAGTIT T CAGAACACAC CGCACAAACA CACACACGNC
TCACAAAAC TCTGAATGTC GCTCTGTCTC CACCTTCTCC AGTCACCGAA AGACCTCGGC CTGAATTGGA GCCCGCAGCC
GTAGCTGTCC CINTCCACCT GINGCCCTCG CGGAGGCTT

SEQ ID NO:338: (Length of Sequence = 339 Nucleotides)

CCACNCGTGG AGGGAGGCAA AGGGGCAGCA AGAGAGAGGG AGGAAGCCOC ACTCTTTTAA AACAAACCAGA TCTCTGTIRA
ACTGAGAACT CCTTATCAC CAAGGGGACG GTGCTAGACC ATTATGAGG GWTCCGCTC CATGGGCCAA TCCCCTCCCA
CCAGGCCAC CTCCAACACT GGAAATAACC TCCCAGCAGG CCGCCTCCA GCACTGGAAA TAATGCTTCA GCGTGAGACT
GGAAGGGGAC TGATGGAGCC TGGWTGTTK TCCCCGCCA GSTCTMACG TGAACCGTAA TCCCCAATGC TGGAGGCGGG
GCTTGGTGGG AGGTGACTG

SEQ ID NO:339: (Length of Sequence = 334 Nucleotides)

GGCACCGGC TGCTCTNGT CCAGCTAGCC TCACAGGAG TGGCTCTAA AACNGCCGG CCCACNCCAT TTGGAAGCTG
TCCC GGTTT TCCGTGAAGT CTTCCCGCC TGTGGTCTC TGGATGGTCT GGACCAACAG CTGGGGATG AGGGGAGGT
CGGGGCAAG GCGAGGAGC CCAGCCAGC GCTGGGGTIN TGGCTGATC AAGAGCTGCA CCACCCNGTA GCTGGCCAGG
TGAGTATNG CGTCCACCAG GTGCAGACAC ACATTCTTT CTTNACAGC CTCCTTACC TGGAGTTTAT AGCCAAACGT
GAGGTGATC CAAT

SEQ ID NO:340: (Length of Sequence = 450 Nucleotides)

GGCCCCACAA TCCCCTCTG GCTCCGGGA CGGGCGGGG GGGCGAGCG GCGGAAATA ATTTTNGTT TGGTCTCTC
TGCCCCAGT CCTTCGCGC GGGACGCGA GACGGAGAA GTGCGGGAA GCGGAAGCA GGAGCGGAG CGCCCGGCC
TGGCAGCAT AGGGCGCGG AGAGGGCAGC AGCAGGATT GAGCACCTAC TGINTGCCIT CACGCTTTAC AAAAGGATTT
TCGTTGATG TTCACTACAG CCCCCTGCCG GGGGTACTGA TGCCCCATTT ACAGAGGGAC AAGCCGATT TCGGAGAGGT
GAAGTCACT GCGAAAGTC GCACCGCCAG GGTCTGCGT ACACCCTAAA GCAGTGTTC GTTACCCCGG GGAGAGCGG
ATGAACCTGA ACCACTTGT GGTCTGGTTC CTGCTCTGC TCGTTTTTT

SEQ ID NO:341: (Length of Sequence = 192 Nucleotides)

TTCAAACCT GCGGCACG CTGTCCCTC GAGGCCCGC CCGTCCCTC TCCGAGAGC CCACCGCTG GTCTAAAGC
CCACCGCTG GTCTAAAGC CCGCCGGTIN TTTACCCAGC ACGGGCTG GGAACCCNG TCTTCTAG CTCTGGNTT
ACTTCTGGA GACTTCTTAA AACGAGAGGA GA

SEQ ID NO:342: (Length of Sequence = 229 Nucleotides)

GTGGTAACT TTTTAAAAA CATAAATACC ATACAATTCA TCCTTTTAAA GTGTGTAAT CAGTGGTTT TGGTATATC
AGTGTGCAC AGTCATCACC ACTAATTCCA GAATATTTT ATCACNCCA CGGCTGTATC TCCATTTCT CTCTCCCKG
CAGATCCTG CAACCGCTGA TCTACTTCT GTCTCTTACA GACTTATCTG TTCGGACAT TTCACATAA

SEQ ID NO:343: (Length of Sequence = 229 Nucleotides)

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TGCTCCAGGA AATTGGAGTT CNAGCTGAAG GCCTTGCGC ACTCCGNGCA CTCGTAGGGC TTCINGCCCG TINTGCGTGG
 TCGGTGCTGC ACCAGCGTGG TGCTTCGNCC GAAGACTTGC CGCAGTCCCG GCAGCGGAAG GGCTTCAGGC CGCTGTGTGT
 CTCTGTGTGG TGGATGAGCT GCGAGTNGC GCGGAAGGCC TTNCCGCACT NCCTGCAAGC GTAGGGCTT

SEQ ID NO:344: (Length of Sequence = 227 Nucleotides)

TCGCAGATC ANATTCACCC TTGCCAGAGG TCAGGSCCCC CGGCCTTGGC GGCGGGCCAG AAGCGTGA CT TGGCCTSC TG
 GAATGCATGC CCTTAAACAT CTCTAGACTA GGGGCAGTGT CCGCCAACCA TGGAGGCCCT CCATCACCAT CCTGCAGCA
 TCACCACNT CCAACCCCCA TGTCACCCC TGGNGATTC ATACCTGTAG TAAGAGAGCA AACCATT

SEQ ID NO:345: (Length of Sequence = 249 Nucleotides)

GGCAATGTT GTCACAGATG TGTGCAGATT TTSCAGAGGA CATAAGTTGG CTGTGAGGWA GAACACAGAG GTTSCCTATT
 TTTTAGGCAG GAAAGAAAGC CTGCACITTT CTGTGTGTGT GTNCAATAA ATCTGAATAA CACCTTGAAA GGGTTAAAAA
 GCTGAGCACC AGGTGTTTTT TTTCCACTTT CCAGAGTAAT TTAAGCACAC NSCAAAGTTA TCTCCCTTCC TTCCCCACGA
 GCCAGCTTA

SEQ ID NO:346: (Length of Sequence = 356 Nucleotides)

ACCTAGTCCC GCAGCGCTG CAGCGCTGG GTTGGGGAA GAGCTGGACG CCGAGCTAGA GGACGAGGCA GAGCTGGACA
 CAGTGGCGGC GTGAATTGGC CACTNCTTTC GGAGCCCGAN CTCTCCCGCA CTGGAGAGGA CTTCTTCTTG GCTGGCGGGC
 TCTGTGTCC GCTCCCGCTC TGCTGCTGCT GCGCGCATTT NGCGCGGCGG TTCTTGAACC AGACCTGCAG TGGGCGGGAT
 GGGGAGAGT GGGTCAAAG GAGCTAGGGG AGCTTNTTGC TCCACGNGC CGTGGACCA ACTCCCGGTC CAGAATATCG
 CAATCCTTTC TCACCGAGGC CTTCGACCTT TCTGT

SEQ ID NO:347: (Length of Sequence = 155 Nucleotides)

GCGCGGTGC GTGGATGCC CAGCTCGGT CCAGACCGC GGGATGCAGA CCGGTTTCTG TCAGGCTTGA GGGCTGCTCC
 GCATAGACCA ACGTCCGGG AAGSCACACA GTGGCCGAGG GCCCGCGCGC TTKGGCTACG GCTGTATAGG TATCT

SEQ ID NO:348: (Length of Sequence = 362 Nucleotides)

AATTCGATT TAATGATTG TCTCATTCTG CTCATACATT TCAAGTTTAA ATGCAAGCAT AAAATGTTTA TCAACAAATC
 TAGAGAGCAC TTGGATTTIN AATTTTCTG TGATCAGT AAGGAGCATA AAAAGAGTA TCTNCTGTTA CACAAGGCCT
 GINTCTCTT TACATCTCA GACTTAAAT CTGTAGAAG TAACAGCTTT GTATTAGGA CAGAAGCTTA GTGGTCACAA
 ACAAAAATA ACATGAAAT ACAATTCGG NATTANTGAT ACTGTGTGTC TCAAAGGATA CTTGAACAT TACANINACT
 AATAATTTGG GCAATGAGAT TCCCGGTGN TTCAACTTTT TG

SEQ ID NO:349: (Length of Sequence = 342 Nucleotides)

AATTCCTTT TTTTTTTTT TTTTTTTTT TTTTTTTTT TTCAAGTAT CACAATGTT ATGATAGAT ACAAGTATAT
 AAAATCAGG CATGANCATG ACTTGATAA TTAAGTAGAC TTAATTTCAA TACTATAATA GNGGGACCA ATTCAAATTC
 TCACATTTG TTTCACACC ACAAAAACCA CTTCAGGGC ATTAACGNTC TCTCAAACT GNTCAGTTTT GTGCAAGTAA
 ACCATGTTT TTTTAAAAAG ACTTGTCAC TTGCCAGGC TCAAGTTAT TAAATCTAG GCACATAAG NCCATTAATA
 GAGGTAGGAA ATACAGGCAA TT

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SEQ ID NO:350: (Length of Sequence = 384 Nucleotides)

GATCTGTGCT AGCTGTGAGG CAGCTCTGGA ACGTGAAGAG CTGTTTGGTT TGAACCGTGA ACAAACCTGT GTTTTGAGTT
TAGCTGACAT TAAAGAAAAA AGTTCATCAC GTGACTGTTA ATGTAAACCT GGTATTATAA ATAACATTTT AAAACAGGAG
AAATCTGGTA AGTTGTTAGG NITCTAAAIT CCTTTTAGTC TGTTCACCTGA GATATTAAAT TTCAGTAGAC AGAACCCAAA
AAGAGATTTC ATTTCTTTCT AATCACITTG GCTTCNTICT NTTTTNTTAA GTAGGTAAAA ACCTTCCTTG GTGGGCACCT
AAGCAGGATG CAGCCAATTA GTTCATGAAC CCAGCTGCGG ACGTGAAGGC TTAAAATCTA AGGA

SEQ ID NO:351: (Length of Sequence = 305 Nucleotides)

ATCTGACCC TCCCCTACTGC AAGCCAGGG AGCCCCAGCC CAAGATGGCC AGCCTGAAAC TGTGCGCCAG GGCTCCTCTT
GTGGCCATGT ACCCAGGGCT GGCTGGCCTG CCATTTCCTT CTCCCCGGAG ACAGCCGTTT TTCTGCAACC ACACCCCGTG
CCTAGCCACA ACCCCAGGCT GCAGCTGCTC AGAAGCTCCA GGCATTTTGT TTCTGGTGAC CGCCCTAAT GGGATATCGG
TGATCACTGG TCCACCCITC CTGTCAGGC TTTCCTGGGG GCTGCTCTTG GAAATGAAGT CTAA

SEQ ID NO:352: (Length of Sequence = 270 Nucleotides)

GAAATTACCC ATGGTCATAT CTAGCCTACA AAGAAGAGAA AATACAGTGA TTCAAGTTTC ATTGTATTCC TCTCATTGAT
ATATTTATCA ACCTTCCAAT TGAAGGAAGT GTCTTCTAGG CCTTTACAAA GAATGTAAAC AGGGTTTAGG TATACAAGTT
GCATATGATA AATCTGTCTT GTTCTATAT AAATCTGTCC ATATTCTCTT TCTGAAATGC ATTATTTTGG GGGGAAATTA
AAATGTGATG CAAAGATCCT TATACTTTGT

SEQ ID NO:353: (Length of Sequence = 195 Nucleotides)

GTGTGATTCC ATTTATATGA AATGNCAGA ACAGGGAAAA CCTATTINAG ACAACAGAGA CACAAAGTCG ATCAGCAGTT
GCCAGGGGAG GAGGAAGACG GGAGGGGAAA TNATTGCTTC ACGGGGTGAT GACAGAATGT NCCAGAACGT GACAGAGGTG
GTGCCTACAC AACTTTNIGG NTGTACTAAA TGCCG

SEQ ID NO:354: (Length of Sequence = 388 Nucleotides)

GCCAATTTTT TTATTTTTGT AGAGATGGAG TCTCCAATG TTGCCCAGGC TGGTCTTAAA CTCCTAGGCT CAAGGGATCC
TCCCAGCTGG GCCTCCCAA GTGCTGGGAT GATAGGCATG AACCACCAAT CCCAGCCCAT TTCTTTTTTC CCTTTGCACA
GTACCAGATA TATGGTGGT ACTGCAGAAA TAATTTCCCC CTGCCCTCTA CATTGATCAT TIGATGACCA AATAGTGTCC
GTCTAGCCAC TTATTTATGA TTTGTACAAA ACATTCCGCT TTCTGAGGTA GACAGTGATA TTCTGAAGCC ATCAGTAAGA
GTAATTTTTC AGINTTGTG AAAGTGNCA TTCTTTGTGT AAAGGTCAGC CTGTCAAGGA AATAGCAT

SEQ ID NO:355: (Length of Sequence = 288 Nucleotides)

TAAAGTGAAG TATTGGGAAA GGGAACATCT CACTCTGATA GATTTGAATT TNCIATTTCT GCTCTGTGAC AAAACCTGA
GTGATATGT GATCAGACAT TTACAAGGCC CTGCATTCTA CCTGGNAATG GCTATAGTGG TGTGAGCTG CTGTGAGATG
ATTIACGTCA ATTTGTCACT TTTTGAACT GTTCCAAAT AGTCTGCTGA CAGCCCTTCC CCTCATGAAA ACATCTCTCC
TTTTCCAGTT AAAAAACAG TCAAAAAACA CCAAAAAGG CCACCTCC

SEQ ID NO:356: (Length of Sequence = 401 Nucleotides)

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GGAAATTAGG TTGGTTATTA ACATGTATAG ATGGAAC TGG GGTGAAAAA AAAAGGAAAT GGGAAATGGAG TGGAAAGGGTT
 GGGTGGGAGA GACACTTCAC AGTATTCTTT TTGTTTTGAC TTGGGAAATG TTACTATTTC ATAAACTTAA AAAAATGCAA
 AAAAAAATA TCAAACTAG GTAGGAAGGA GAACAAATG AAATATAACC AGAAAGGAAT AANCTTAACA CATTTTGAGT
 GAATCACAAA GCCAAACCAA AAAAGAGCTA ATTTAAGTCA CTTTAAACT TGGTGTITAA CTACCTACAC TCAGTCTAAA
 AACGGNAAT AAGGGTAAAG AAATAGTGA ACTCTAGTTA GTTGGGTCTT TTCTTTACAG CAGTATGGGG ATGGCAACCT
 G

SEQ ID NO:357: (Length of Sequence = 275 Nucleotides)

CAGACAGTGG ATAATAACA CCTCATTAGG AAACCGATCT CAGAATGANC TCTGGAGTAT GAAAAAGATC ATTTCTTTTT
 GINCCGTAA CCTAGCATTC CTCTAGGCT TCINCTCCTT TAATGAACC ACAGCTTAGC TCATGTATTC TTMTATTAA
 ACCCTGCTCT CATGTCCATA AGATTCAGGA ATTTAGGAAA TNAGGCTGGT TTGAAGAGGG TAGAAAGCAA TAAAGGCAGN
 AAAAAATAAG NCTAAATCA GGGGAAGATG TATTT

SEQ ID NO:358: (Length of Sequence = 314 Nucleotides)

GTAAGGAAG TATGAAACT GAGACTAATA TTATGAAGTC TTTTITTAAT TCITTTATCTT ATTGCCCAT TTTAACCCTT
 TGGTGTITGA AATGAAAAAT AAATAINCTC TTCGCGATAG ATAATATGTC AATAACCAA AGGIGGCCTT AACCAATAAT
 TGGCCCACT TTAAATTATT ACCCTAAAGA TATATAAAT ANCTAATCTA AAATTAAATG CAATTTTGCT ATGACTTAAA
 GTGTCANIAA TCCTGTATAA GNGATCCNT TTATGCAGTC ACTTAGGCAT GAAGTTGGCA ATTCATCTAA ACTT

SEQ ID NO:359: (Length of Sequence = 372 Nucleotides)

CAAGAGAGAC ATAGCAGGCA TTGAAACAAT GGAAATGCC ACATAGCAGA AGGGAGTGAG GGGATCCAAA CTACAAGAGC
 GACAAAATCA ACTGTGGATC CAGAGACGAA AAAATGTTCT GTAGTGCAA GGTAACTCTGG TGAGATGAAA AAAAAAGAAC
 CATTTTGA AAAANGGAAT ATTAGAAATA TTGAAGTAA TATCATAAGT CATCTATTA CAAAGGCATT AACTCCTCC
 TATCAATAGA ATGTACCAAT TTAANAATTT TTAGTAGGAA TATATCTTTT ATTTTATTAA CAGAAATCAN GGGACAAAGA
 GGATTTGATC CATCCATACT TCCTACTCTT ATGGGGTTG TCAAAATGTA GG

SEQ ID NO:360: (Length of Sequence = 395 Nucleotides)

GCATCTTTT GATACCCACC TAATAAGAC AATCTCTAA ACCAAATAAT AGGCTATGAA ATGTATTGIG AGINCTTATT
 TCATTCAAGA CAGAGCTTAC CTTAAGTCT CCAGCTGAGA CAGTTGGTIT TATCTTTCTG AAAGCAGTTT GTCAAGTGT
 TTCAAGTAA TCAAAAGATC GGTAAATCAA TTCCTTAGCG AATTGGATTA GACACTCTCA TTTCAAATGG CAGTTTTATG
 CTTACTCATT GTCTGAATA ANCTTAAATA CTTTATGCTA TCTTCCTGCT CCATTATTTA TGTAACTACT GGCNCTTAG
 TATTCGTCTT TAGNNCATAT AAAATCACTT NCAGGTATTT TCCATCACGG ACACAGAGGC AGGCACAAAT TAACC

SEQ ID NO:361: (Length of Sequence = 298 Nucleotides)

ATTTTTTGT GGGGAGAACA TTTAAGACCA TTTCATGTC ATGATGAAAG CTAATGGGAG AAGGCTTTTN TNCACAAAA
 ATTINCITTA TTTTINCAAC TTTATTGAGG TTATAATGA TATTAAAAA CTGTACAGAT TTAATGTGTA CAGTCTAATG
 AGTTGGGACA TATGCTTACA CCCNIGATGC TGTACCACA GGCAAGGTAA TACACATATC CGTCACCTGC AAGAGTTTCT
 GIGTTCCCN NIGTTTCTCA TTTTGNTTTT TTCAAAAATT TACTTTATAG GGTATAG

SEQ ID NO:362: (Length of Sequence = 437 Nucleotides)

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ATGCTGGAAG TGATTTCTGC AGCTCAGGAT TTTTTTTTAA AGCTACATTG AAAATATAGG TTTATTTTTT GTNCAGGTTT
TNCITTTTATA TTTTTTINCT GCACAAAGGA GGAGGATTTT CCCTTACTC ATATCGAGGC CAGATTTTTTA AAGCCAGCTA
AGGCAGCATC AGCTGTGCGG GATTTAAAGC CTATAGCTCA GCTGAAAAAA AAGGTGGGGT GCGGTTTCAT GTAATGGGAC
ACGATGCCCT TCTTGCTGAA CCACTGGAAA GAGCACAAGG AGCACTTTTC CTCTCCACT GCCCGCCGGA GTTCTCGCT
CAGCTGAGGG GAGTGTCTCT TGGGCGGGGA TGGGATGATC ACTTTGTGG GCTTNTCGCT GATGGTCTCG GAGGCTGCCA
AGAAGTTGAG GTGTAATACG CATCAATGTC CGTGGCG

SEQ ID NO:363: (Length of Sequence = 449 Nucleotides)

TGATTTGAAG TAAGCTTTCC ATGCTTCACT TAGGGTGGGA AATTTTAAAT ATCAGAGCTT TCTTTGTTAG CAGCATATAG
TTATGCAATT TATTTAAATC TGCAGTGCCA ATCTTTTTT GATGGGTGTG CTTAGACCAC ACATTTAAGA TAATTATTAA
TATGTTAGAA CCGAATATAT TTINATGATT AGTTTTTATG TGTCAATTTG ACTGAATTAA GAGATGCCCC GACAGGTGGT
TAAACATTA TTNCTGGGTA TGTTTGTGAG GATGTTTCCA GAAAAGGCTA GCATTTGANT CAGCAGACTG AGTAAAGAAG
ATAAGATAA TACTTGTCTAT GTGTACAGGC ATCATCCAAT CTGCTCAGGA CCCCAATAGA ACAAAAAGGT GGAGGGAGAG
TGAATTATGT CTACCCCTT GAGCTTGGGA CAGCCATCTT TTCATGCCC

SEQ ID NO:364: (Length of Sequence = 282 Nucleotides)

GACTGTGTAA ATACACTTAA TTTTCCATTT TNCOCCTCG GCGACATGT GAACAGGCAG TGTGCAAAAT GTTGGCGGGC
AGTGTAGGGG GCGTGTGAG AGCCCGTGG GTGNTCTGCC CGTCCCCAG GCTTGTAACT ACTGAAAAGT GGGCAGCTAG
GAAGCGGGGA CGGAGCAGGG GTCCCCACCC AGGAAGCGCC AGGNAGATTN CTTGTAAAGC TACTCTACTG GAGGCTCCGG
GAGCACCGAG NCGGGCAGTC CCCAGGTCA TGAGGCCCGG GG

SEQ ID NO:365: (Length of Sequence = 349 Nucleotides)

TTCAAGCAAT TCTCTCGCT CAGCCTCCCA AGTAGCTGGG ATTTACAGCAG CTGCCACCAC GCCCAGCTGA TTTTGTATT
TTNAGTCAAG ATGAGATTTT TGCCATGTTG GCGGGCTGG TCTGAACTC CTGACCTCAA ATGATCCGCC TGCCCTAGCC
TCCTAAAGTG CTGGGATTAT AGGCATGAGC CACACANCT GGNCTTTTN TTCTGTTCT AACTGTTCC TTTTATTCC
CTATGGAGCA TCTACTGAGC CCCAGCCGAG AGTAGAAACA AACCTGCTGG CTGCTCTNAA GGCACCTATA GTCCAGTTA
GGGGNAGACG GGTCACTTAA CCACTTAGT

SEQ ID NO:366: (Length of Sequence = 366 Nucleotides)

ATGCAAAGGA ACAATGGTGT TGSCAAAGTC TTCTTTGAAT ATCAGAGACT GAGTCAATAA AAAAAATAGT AGAAAGGTGG
CTTTTACTAT TGACAAAAGC CGGGTCAAA AAAAGTAGTT TAAGTCTTAA GNTGAATAT GCATTAAAGT ATGCAGGTAG
CAAAGATGTA ATAAATTCC TTAATAAAG AAATTAAAGT TTTATTTAGA ATCAATTTTA CCNGTCATG TAATTGACCC
NICTGAGNAT TACAATAAGC AAGAGGAAAT TAAGGTGTTT TGCAAGAGCT GTATTATAT TACNGTTTT TAAAAACCAT
TTTCGAAAT ATCGTAATTA AAGCTCTCCC AACTCGTTTA AGTCAG

SEQ ID NO:367: (Length of Sequence = 391 Nucleotides)

GCAAAAACAA ACAACAAC CTTTAAGTAC AGTAGTCCA AACACACTG CTAAAGTTAT GAAATAATTG TGGATCATTT
CAAGTAAAAA TTATTAAAGG AGCAATAATT AACCACAAGG GGGCATATAT ATATAINCNC CTTAGATTCC AGCAGAAAGA
CTAGTTTTAA GTAGTAACAT GCACGTGAA GTATTCTACA TTTTCAGTCA CTAAACTTT CCTCTCTCAG ATGGCTACAA
CTTTTAAATA TTCGAGGINT ATTTTATATC TAAGTAAAG GATTCCAGAA TACTCTGCC CTGCAAAACA GTAGTGTTTT

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AGAAGNCTCT NGGAAGTGT GCTGTTTACC CTTTAGCAAA GNGTACAAG AGCTATTAGT TGTAAATAA C

SEQ ID NO:368: (Length of Sequence = 370 Nucleotides)

ATTTCCCTTC TGCACGCGT TCTCTGCTC CCCATTACA TGGTTTACTT CATTTCCTC TTCATCCATT GGATTCACAT
GTGTTCTAGG CCAATATTCC AGGNGTGCTT GGAGTAAAAG TCCTCTAAA TTCAATTITG GNTCTGACCC ATCAGGGCTG
CTGAAACCAG CATCTTTTGC AGAAACCCAG GCAGCAAAAC AATCACTTTC ATCCAAAGTA ATAGTTAACA TCCCTGTTTT
TAAGTCTACT GAGAACCAAT TTGGCACATA CACCATTTTA AATCTTTTNC TAATTTTCATC TTCAAATCC ACTTTGCCCA
GATCTTCAAC TTTACATGGC TTCAATACAT CCAATATGN CACATTATTA

SEQ ID NO:369: (Length of Sequence = 315 Nucleotides)

GACAGGTATT CTTTAGAAGT TTTTGTGTTA CTTATGTTTT NCTCTTTTAC ATCTCCTTGT GAATTTCTGT CCCATTTTGA
AGTCTCTCCT TGTCTCGAC CAAGATCCCC TTGATGTCT GTAGCCAAAG ACTGAGAAAA AGAGTTATTC TGAATGATG
AGAGGTGAT AAGTCTGGTA AGAAACTGTT GGACATCTC CAAGCAGCAC TGCATTGCAG TCTTTTGGGC TGTCTTCTTA
CTCGGGTGT CTGTCCCTG AGTGACTACG GAAGGGTCTT GGATGATGGT TTCTTCAGAT CCCACAGTGG ATGCT

SEQ ID NO:370: (Length of Sequence = 442 Nucleotides)

AACACTTTTA CACTGCTGGC CTAATTGTGA GATATCTCA AGAAGATTAT GAGTCATTCT CACTACCGGA ATCTGTTTCT
CTATTTTNTT TACCAATGGG TGCACCATG AATGTTGGCC ATCAAATAGC AAATACCTC TGCTGTATTT TCTACTTNN
GTTTTAACTG GAGCCTCAGC TGAAAAGGTT TATGGTGTG CTATTCAGTT TTATGAACCA TACTCTGAGG AGAATCTCAC
AGAAAAGCAG AGACTTCTTT TGGGTTTAA ATCAGCAGAT GGGAGTCTG ATAGTTTCAA AACAAATCAT ACTAACAAAT
GCATCTGTCT TCTTTCTCAC TGGGCTTTT TTGATGGCA TTCAGGAAGT TTCGTACTTT TNCGTATCG TTAATTCAT
CTCTGGGCT CATGTCTTC CAATGAGGA GGATAATCC CA

SEQ ID NO:371: (Length of Sequence = 441 Nucleotides)

GACAAAGTCA CTCAGGTCT ATTTACCAT ACCCAAAGT AAAGGCCCAA ACTCCACCGG GGCCAAGTNT TTCGTGNTCA
AAGTCACAT GTCCCCAGA GAAGTCTAAA GACTCACTAG TTCAAAGTTG CCTCGGNTCC CTCTCTCTCT GTGCAGGAGT
AAAATCTAGC ACACCACCAG GCGAGAGCTA TTTTGGTGT TCATCTCTGC AACTGAAAGG ACAATCTCAA ACTTCACCAG
ACCACAGATC TGATACTTCA AGTCCAGAAG TGAGACAGAG TCATTCAGAA TCACCATCTC TGCAGAGCAA ATCTCAAACA
TCACCTAAGG GAGGTGGTTC CAGGCTTCA TCCTCAGTCA CTTAGCTTGG CATCCAGATC TCCANTAAGG NCAAGATAGA
GGTGAGTCT CAGCGAGTCC TATGTTGAAA TCTTGAATT T

SEQ ID NO:372: (Length of Sequence = 362 Nucleotides)

GAGGTATGT TGTACTGGG AGGTGAAGG GAACACAAAT TCAGTTATAA GTCCTTTTTG AATACTAAGA GGGGAATAAT
TAGGGAAGCT AAGAGGGGAA TAATTAGGAG AAGAAAAAA AACTTCAAAC AATTTTCCCT GTACATGAT TTTACTTGCA
TTTATAAAT GATTTTTTTT TCTAAGCACT CTTTGATAA TGATTAAAGT TGGGGTTACA TTATTINAGG GTCGTCTAAT
ATTTAAGGTG ACTTAAAAAC CTCACACAG TTAATCCGA ACTGTGAAAA TTCTCATCT TATCATCCCT CTGTTACTAT
CAATTTTCT CACGGTACAG ATTCITTTAT AATTACTTCA TT

SEQ ID NO:373: (Length of Sequence = 306 Nucleotides)

ATTCTTTGTG CGTGTGTGTG TGTGTGTGTG TGTGTGTGTG TGTGTTTTGC TGTGGAGTTG AGTTTCTTTG TAAATTCTGG
ATATTAGTTT CTGTTAGAT GAATAGTTT TGAATATGTT CTCCCATTC AAGGTTGCC TCTTCATCT GTTGATTGTT
TCCNITGATG TGCAAAAAT TTNACTTTA ATATAGTTCT ATTTGTTTAA TTCGTTTTTT CTACCCATG CTTCTGAGAT

CTTAGCCATA AAATGTTTGC CTAGAACAAT GCCCTGGAGT GTTTCCTCTC AGTTTCTTC TGGTAG

SEQ ID NO:374: (Length of Sequence = 278 Nucleotides)

GGGTTTGGT TGAGTTTCT ACCTCATTAT CCAAGATATT TNCITTCAG CCAGCAGAAA GAAAAAGGAG AAGAGCTGCC
ACCCTTTGTA TCCAGGATGA TCTCTINTG AAATCCTTGA TTAAATTATA TCTGCATGAC CCTTTNCCCA ACTAAGGTTA
TATCCACAGT TACCGGGGT TAGCACTGGG ACATCCCTTA TTTTANGAAC ATGTCTCAGA AAGTTGCACA AAAAATCTCT
ACTACATCCC ATTGGCCAAT ACTTCTTACA TGATGACA

SEQ ID NO:375: (Length of Sequence = 321 Nucleotides)

GGTGACAGTA TTTTGTGTG TTTCTGTAGC TCAGGCCCT CAGAAGGGAC GCCTACAGTT GGCAGCTATG GCTGTACCCC
TCAGTCATTG CCCAAGTTCC AGCATCCTTC CCATGAACTG CTCAAGGAAA ATGGCTTCAC ACAACACGTC TACCATAAGT
ATCGTAGGCG CTGCCCTTAAAT GGTAAAGAGT GTGGGGGGCA GGAGATGAGC CTCTGGGCCC GTTATTTAGA CCCAGAGTAT
AAGAGTTGGG GGATACGGG ATAGGTGACT CTTTCTCTG ACTTCAGAGC AAAAAAAGA CATGACATTA TAGCAAGAAA
G

SEQ ID NO:376: (Length of Sequence = 337 Nucleotides)

GGAAAATTTA CAGCATGACT ACATATGTGA GGAAAAAAT ATCTAAAATC AATTAACTAA GCTTCCATCT TAGGAAACTA
AAAAAAGAAG AGCAAATTAA ATCCAAAGTA AGAAGAAGAA AATAAATAAT AAAAATTAGA GCAGAGAGAA ATGAAATTAT
GAACAGGAAA TCAATTTTAA AAATAATGA AACCAAAAGC TGGTCTTTG AATCAATTAA TAAAATTGAT AAGCCTCTAG
CCAGACTAAG AAAAAGAGG TAGGGCACA ATTACTAATA TCATAAGTCA AAGAGGGGAC ACCCTACAG ATCCCATGGA
TATTAAAGG ATAATAA

SEQ ID NO:377: (Length of Sequence = 455 Nucleotides)

GTTACAATTG AGAAAACATA TTTAATAAAT CATTGTCAAT TTINATAATG TTTCAAGCCC ATTCTTTGTT GATAGCCTCC
ACATTTATAT GGTAAAGTCA TTGTGCTGT GTTCTTACC TATGACATTA TTTNATATC CCTTCATTTG TGGATCTTAA
GATGTGCAG AAGGTTCAAT CCTGTACCC AATACAGATT CACTTCCTTT AGCTGCCCTT NCTAGCACCA ATATGCITTA
AAAAAAATG CGCAACAAC AAGCAGTGAC AGCGGCAAT TCCTCGAATG TCCAGATTAA TAACTGTAGC ATGCTAAAGA
AAGGTGTGTG TAAATAGCTG GAGATGGTAT ATGGTCCAGA GTCCAGCATA AAATTATTTT CTTTCTGAGG CATTCCCTCC
ATTCCCTTAA CCCGGATACA TGCAATAGGA ATGTAGCAAA ACCCTTCGGG GAAC

SEQ ID NO:378: (Length of Sequence = 349 Nucleotides)

GATGGTCAG GGTGTTTATT ACTGGACATG CTCTATGCTT ACTTGCTTGA AAACGCTCCA TTAGAAAATN AACTCTGAAA
ACTATATGCC CAATGCTAAT AGTGGGIATT TATTGGTAAC ACTCTTTATC AGGTGCTATG ATTGTTGATG GCTTTATTTN
CINCTCATA TTINCTATAA TINCTACAAT GAACATGTAT GTATAATCAG ACAAAAAAGC CAAGAAATAT CCATAAGTTT
TNTGGTCAT TCATTCATCC CATAAATACT TGCTGAGCAC CTGCTGTAAG CCAGGCTCCG AGCCGGCTGC TGGGTGGAGT
GCCGCACCCC AGGGAACGGT CAGCCCTCG

SEQ ID NO:379: (Length of Sequence = 421 Nucleotides)

ATTTTGAATC ATATTTTACT TATAGGTTTG CIGTATATAC TGATTAACT TCTGAACCTA AAGATTCTCT ATAATTAAAC
TAGCACAAT ATAATCTGTC CCTTACCCAC ATGTGAAGAA TGTCTGGTGG GGGAAATCCA ATATTGACCT TCACATTCCA
CATGGAAAT CTTTGTCCCC AGAGTGCAAT TAGGGTGATT AAAAATAAGC AGCTTTTGTG AGTCTCAAGT TTGTTCCCA
AACAAGCAGC ATCAGCAACT GGAAATTTGT CAGACATGCA AATTATCCAG TCCCACCTGA GACTTCAGCC CAGATCTATG

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GATCAAAAAT TTTGGGGGTG ACCCTGGGCA ATATGGGCTT TAATAAGNCC CTAGGATGGG TTCTGATGCA TGCTCCAAAT
TTGNGGATCA TTGMINCINT G

SEQ ID NO:380: (Length of Sequence = 311 Nucleotides)

ATTTTNAGAT GGAGTCTCAC TCTGTGCCCC AGGCTGGAGT GCAGTGCCAT GATCTGGGCT CACTGCAACC TCCACCTCCC
AGGTTCAAGC AATCCTTCTG CCTCAGCTTC CCCAGTAGCT GGGATTACAG GCACCTGGCT AATTTTTTTT TTTTTTTTTT
TTTGTAGATG AAGTCTTGCT CAGTCGCCAG GNTGGAGTGC AGTGGTGTGA TCCTGACTCA CTGCAGCCTC TGCTTCCGT
GTTCAAGCGA TCCTCTGCC TCAGCCTCCT GAGTAGCTGG GACTACAGGC ATGCACTACC ACATTAGCT A

SEQ ID NO:381: (Length of Sequence = 442 Nucleotides)

AATCTGTGAA CATATATTTT NATTTATCTT AAATACCTAA GAGTGAAATT NTGGTTCAT ATGTGGGTAT ATATTCAACT
TTGTAAGAAT CTACAAAAT GATTTTCCAA GTATATGTAT AATGTTATGG TCATCAGANC TACATGATAG TTAGAGTTGG
TTAACATACT CACTGCAATG GATTGACTTT CCTGTGATTC AGCTATCCCA CTCTTAGGCG TATACCCAAG AGAAACTCAT
AATGTCCCTG TGTGCAGCTT GTATGCTAAT GATTTTAGTA GTATTTTTTG TAATAGCCAN AAGGTGGAAA CANTGAAAA
TTTCACGGAA ATGATTAATG AATTAACAAA ATATTATATA TCTATATATG ATCCATTAAT CAATGAAANG GANTGAAGTG
GTATACAAGA AACACCACAG GTTAACCNIT GAAAGTATAT TA

SEQ ID NO:382: (Length of Sequence = 337 Nucleotides)

AACAGACTTT GGAGCCANTC CCATGTGAGT TTGAGTCTCA GAGTGACTCT GGGCAAGTNA CTTAGGCTTT CTGAGACTCA
CTTTCCTCCT TTATAAATCA GGAAGAATAA TCCATTGCTC ATTGAGTTGT TAATNAGACA TAAATGAGAT AGTGTATCTA
AAATGTGATT TGTTAAGTCT AATACGNAAT AGATGCCTAT TTGAGTGTIT CINATACTCA GGATGGTTCT TGGGATATAT
TINCCCATGG AACAAAAAGC AGACTACTCA TGACCACTCG GATTTTATGT TCAGCCACAT TAGGGCTCTT ATGGCCTGAC
CTGAAGACCT ACCATTT

SEQ ID NO:383: (Length of Sequence = 421 Nucleotides)

GTGAACTGA AGAAGACCAC GACAAACGAT CGCTCAGCCC CTCGCTTTTC TTAGGTTTAC AAGAAATGCG CCGGTGGGGA
ATGAACINTT TCATTAAATAA AACCTAATTT GTCTTGATCC ATTCCACTCT ATAATAAAAC AAAAGATTTT NTAGGCAACT
CGGAATATAG CTCPTTGAAG AGTACTCGAC ACCTTTAGAT AAGAATTAAA ACCAACCTAT GTAACTGACA TAATCTTGAT
CINTTAATTT GTAAATATG ACANITTINCT TTCTGCACAT TTTAATCTTA GTTCCCTTTT TGATTTINCT GAAGGTGCCA
AATTCATTT AACTNCITTA CAAGTCTTTG TAAAATTTTA AATGCATAAA GGGGGGTGG GGGCAGGGG ACCNCGGANG
TAGTTTAATT TTCGAAAGG G

SEQ ID NO:384: (Length of Sequence = 420 Nucleotides)

GGACTCCGTT CCCAAGAATA AGTTTGTCTT GGGCGGAAAG TATGTGGTTC ATCCGAAAAA AAAGAAATCA ATGATTTGIG
GCAGTCTTTC ATGTGCTTTT GGGCAITINC ATATCTTCCT TGGAGAAATA TCAATTAAGA TCCATTGCGG TATATACATA
TATTAATAAT ATGGGTCATG TATTATGGCT CATACCTGTA ATCCCAATGC TTTTGGATGT TGAGGCGGGA GNTCACCTG
AGGTTAGGAG TTGCAGACCA GCCTGACCAA CGTGGTGAAC CCTGTCTCTA CTAAAAATAC AAAAGTTAGC CAGGCATGGT
GGCATGCACC TGTAGTCCCA GCTACCCAGG AGGCTGAGAC AGGAGGAATT GCTTGAACCC ANGAGGCAGA GNTTCCAGT
GAGCTNAGGA TTGTGCCACT

SEQ ID NO:385: (Length of Sequence = 404 Nucleotides)

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GTGACAAATG TTAAGAAATT GTGTGTCAAG CAAAATACTT TAGAGGCCAA TGGGCCACAT GTTTTAAATA TCAAGAGATT
 ACACACAAAA TTINTTTTCT AGCTTCTTTT GAAAAATCAG AATTGGGAAG ATGTATTCAT GAGTGACTGC TGCCCCCTTT
 GGTGGGACT CGTCCCTTCA GGTTCATTAC ATGGTCATCA ATAACCATTT CCTTGGTCCC TGCTTTTGTC TTGTCTGGNC
 TCTAAGCATT TGAATTTTGA GTATTATAAG AAAACTTAAT ACTTINCTAT CAGTCACCAC ATACATGTGT TTCTATCTGT
 ACTACGNCIT ATTAAAGCN TTTTATCAAT AGCCNCCATT TTGGAGGGGG GAATTCAAC TGGTGCCTNG ACTAGCAAGG
 AATT

SEQ ID NO:386: (Length of Sequence = 267 Nucleotides)

GTCTGTGGA CATTTACGTG GTATCTTAG AGCAACACA GAGTGGTGC ATAAGCTGCA GTGTTTTGT ATCGGTGGGA
 CTGTGGCATG GCGTAGAGGA GTNACAGTCG CAACTGATG GCCAGCTCT GACCTCCAG GCAAGTGGAC TCCGAGGAGT
 ACCAGCAGAT CTTCACCAT GCGTCGGGA GGGCTCTGGG GAGAGTCAGT GGGCAGGAGA GGGTCAGCTG TGCAGGCTCC
 AGGGCCAGC CCGTGCTTT CCCCCT

SEQ ID NO:387: (Length of Sequence = 384 Nucleotides)

ATTTTAAATG ACATTTTATT TAGGCCAGGG GACCAGGTAA CATTATTTT AGGAGGAGAG CAAAAGGTGT TATATTACTG
 CTTCTAATTA CCTAGAAGGA AAGCATTTC TACACTGCCA TTATGATTGG CTGCAGCAGT TCAACCTGGC TCTCGGAATC
 TGCCATTAGC TTGACAGCAT ACAGAGCACC ATATCAGGGT TACTATGGGA AGACTCTATT GTGGCATCAG AAACACAAAA
 AACACTGGAT ACAGTTAGTT TCTGTTGACA GTTTCAGAAG AAAATCCAC AGATTGGACA GGCTGCCTGC TGAAGGGTT
 GTCCTACAC ACAGCATGCC CTGAACCTG GGAATGAAGT TACCCCTATC TGTGGTGATC AGGA

SEQ ID NO:388: (Length of Sequence = 345 Nucleotides)

CTAAGATCAA ATGCAGGCAA AAGTGGTGA TTTTACCACC TGTGTGTAAG TCTGGGTTTA TAACTTTACC GTAAATCACC
 TAGAACACAG GCTAGCCGAA TCGGGTGTG TGGTATGGCA ATATCCCGAG AGCTAACCTG GGGCTGGGGC AATGTTCTGT
 GGCTGCTGCA CTGCTCTA ACAGGCCAGT TTAAACGTC CAGCTCTCAG GGCCACATTC TCCAGGACAC AGCAGGGAGC
 TCACAGTAGC TCAAGACCG GCCAGCCTC CATCCCGAGC CTGGAGCTG TCAGTGCTCC CAAAGGCTGA AAGAATTCCG
 TCTTGCTGA GTGACAGCC CCGT

SEQ ID NO:389: (Length of Sequence = 156 Nucleotides)

TAACCTGCCC CAGCAGTGA TGCAGGAGA CTCTCTGGT CATGAGGTGA CCAATCTGCC GGTGACAGAA GNACTGATTG
 AGCGGGAGAA TGCAGCCAG CTCAAGAAGT GCGGGGAAAC GCGGGGGNG CTGCAGTATC GGCCCTCAG GCGACT

SEQ ID NO:390: (Length of Sequence = 364 Nucleotides)

GAGTCTCGCT CTGTCACCCA GGCTGGAGTG CAATGGCATG ATCTCGGCTC ACTGCAACCT CCGCTCCCG GTTCAAGTG
 ATTCTCTGCT CTCAGCCTCC CGAGTAGCTG AGATTACAGG CACGTGCCAC CACGCTGGC TAAITTTGTA TTTTCAGTAG
 AGATGAGGTT TTGCCATGTT GGCCAGGCTG GGTCAAACCT CTGACCTCA GATGACCCG CTGCTCAGC CTCCAAAGT
 TCTGGGATTA CAGGCATGAG CCACTGCACC CAGCCCAACA CTGGGATTCT TTTATCCGCT GGCTGGCTCT TCCGAGTTG
 AATTGTGTGA CTCTTCCCC TATCTGAGG CAGTTTTTC TTCA

SEQ ID NO:391: (Length of Sequence = 325 Nucleotides)

GAGTGTCCAG ATGATGGCAG TGATGGCCCA TCTGGAGCG CTGCTGTAAG GACACTGGCT GCAGCAGGG AGGCACAGCC
 AGGCCTGGC ACTAGGCAGA GCTGGTGTGG GAGCCAGGAG CAGATGAGAG CCCCCTTC TACCAAGTTG GCAGTGAGA
 AGCCCGCACT CCGGGTGCT GATGCCAGT TCAGTCCAG ACCCTGGCAT CCTGGGCTN TCAGGGGCC AGGAAGCCCC

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CCACCCCTGC AGGNTTCAAA GGGCCTGCCT CCCACTCCTT GGCTTTTCCC TCCTCCTGGG AACCATTCTG GGGCAGAGCA
AAGCT

SEQ ID NO:392: (Length of Sequence = 371 Nucleotides)

ACATCCACAC AAGTACAAGA ATACAGAAGC TTCTCTAGTC AGGATGCACT AAGCACCTAA TGAGTAAACA AACTTCAGCA
TATCCTCATT GTTCTCATGG TATTAAITTG AAGATACTTA CCTCGAACT AAATCTGGTT TTAGAAGAGC TGCTTGTTGT
TCAGCTCCAA CTGGTTGGGA TACAGGCTGT AAACAGTACA GACATAAAAC TTGCTATGAT AACAGTAAAA TTCAAGCTAA
ATATACAATT TGTTACTATT CAGAAAACAC GATAGTTTTG GTTACCTTGC AAACCTGGTA GGAATATCTA TGTTATTGAA
TGTCGTATC AATCCTATTA TTAACATTAT TACCAAAGGT AAATAAAATT T

SEQ ID NO:393: (Length of Sequence = 404 Nucleotides)

CCTTTATAGTA GCTTCTCTGA GGTAACCA CTTCTTTTGG ACCATCTAGC GCANTCINTC TTTACATCAA CCATTTATTT
CAAGTGTAGT GTGCTTCAGA GTCTGAAAGA GCTATGTCAG AATGGGCTGT TGTGGCTTTC TATGGACATT CACATGAAAC
CTGTTACAAA CAGTCTCTA GAGACAACIT TGGGTGGATC CATGAACCTCT GTGTCTAAAC TGATCCACTA TGTAGGGTGG
CTATCCACTA CTGCAATGCG CTGGAGAGC AACAACTTT TCTGTGTCGA CTTTATTTTG GATTTCATG AGAAGGTGTG
TGACATATAT ATAAATNATA ACCTCCATT AGTGGGTATT GTTCTCTCT GGGGATCCTT CTATCTGCA CTCTCAGCC
TGGG

SEQ ID NO:394: (Length of Sequence = 416 Nucleotides)

GCCACACACT GGAGAGGGAG AGCTAGAGAG TGAGACAGCA GGGGAGCTGA GGGTGAATGG CTGCTGTTAG AAGCCCTGGA
GACAGCCTGA GGTACAGAGC CAGCCCCACT CCTGGCTGTG TGATCTTGAG CAGGGCTGTT AACTTCACTA GGACTTGGTT
TOGGTTCTC ATAGAGAATA GGTACAGTGT GAATTAAATA TATATAGCTT GAATAAAGTG CCCAGCTTGT GGGTAGCTGC
TGCCATCATC ATCACCATCA CCATCATCAC CATCAACATC ATCATCATCA TCATCATCAT CATCATCATC ATCATCATCA
TCTCAGGCAC AGGGGCTTTA AGGACAACAT GCCAGTTTA AGGANGAACA CAACTCTCTT CATTTATAGC GNCCTCCAT
CAGTGAGTAG ACGCTT

SEQ ID NO:395: (Length of Sequence = 315 Nucleotides)

AGAGATCAAA TGTCCTAAAC ATTATGGAAT AGGAGTGTAT GACTGACTAA CATCCAGTAA TCATTAGGGA AAACAAACAT
GAGTGAGGNC AACTGAAATA ATTATGATAC AATTAAAGGT GGTAGGTTAC ATTTGTATAG TTCTTTAAAA TATGCATTAT
TCCACATGAT CAGAAATATA AAANGANCTA GACAGATACT GGTAGAGAGA CAATTAAATT AAATTTGTAA CATATGCTT
GGNSCAAGCA TTCAAGTTGA GTGCTTAATG TGTATCGGTG ACTGCACGTG GCAAATAAAT TTGGGGTAG TAAGA

SEQ ID NO:396: (Length of Sequence = 409 Nucleotides)

CTCCAGTTCT CACGTTAGGG TGCTTCTTC CCCGGCAGAG TTTTTOGAGC TCATGAAGGT GGACTGCCTG GAAAGTACTC
TAGAAAAGTC ACTCCAAGCA AAGTTTCCCT CAAATCTCAA GGTCTCCATT CTCTTAGACT TCACGCGGGG CTCACGAGGC
CGGAAGAACT CCCGCACAAT GCTGCTCCA CTCTGGGGA GGTTCOCAGA GCAGGTCCGA GTCTCCCTCT TTCACAGGCC
GCACCTCCGT GGGCTGCTTC GGCTCCTCAT CCTGAGCGC TTCAACGAGA CCATCGGCCT CCAGCACATT AAGGTGTACC
TCTTCGACAA CAGCGTNATC TTGAGCGGTG CAAACCTGAG TGACTCTTAC TTNACCAAC CGTCAGACCG NTACGTGTTT
CTGCAAGGA

SEQ ID NO:397: (Length of Sequence = 414 Nucleotides)

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ACAAGCTGTG TGACCATAGG CAAGTTTGAC CTTTCTGAGC TGCCATTTTC TCATGGTAAA AGAGAGATAC TAGAGGAACC
TGCTTCACAG GATTGTCATG GAGAATAGAG GAGATGATAC AAGTGAAGCA CTAGGCAGCA CCATACTTGG AACTAAGGGA
AAGCCCGCAG TCAATGTTCA GTATTGTTAC ACTTGCCAGA TTGTGAAAGA GCGCAGGCAA CCCTTGAGTT GAGCTCAACG
CTGGAGCCAA GATCAATGAC AGAAGGATTT TGTTTTGAAA CAGCAACTAA TGACCAGAGA GAGGAAATGG GTCATGAAGC
TCCATGGTGC CTTTCATGAA AATGAAATGT AAGGGCGTGA TTCAGGAAAA AGGGACCACG ATCAATACCA GCAGACTCTT
CCCTATGCAC TGGG

SEQ ID NO:398: (Length of Sequence = 400 Nucleotides)

CATCAAGCTG GGAATGCCCT AAAGTGGGGG CGTGAGGAAG AGAAGGGGTG ATACCTAGAG GCTGGGGTAT CTCTGTCCCA
AGGAGACAAA CTATAACAAG ACCCAGCAAC TGAAGGGTGA ACACCTAGCA CAGACGTATA CCTCCAGGNT CCTAGCTGCA
TTTCTAATTC TGCTTCATCT ATGCTTGAGC ACTACTTGTT GTTAAATATA CTTAATATCA CTCTTAGCTA ATTTCTCTTA
TGTAATTTT TATTTATTTT TGAGGGCAAC CCAACTTCCA GGCTCTTGGG AGGAAATAGA CTGCAGCCCC TAAGTGTGAT
CAATACTTAA TTATAACAAT AATCACTAAT AATAACTTGT GCTGCTTCAT TGTAACATAA ATGTACACTT TTACATTTTT

SEQ ID NO:399: (Length of Sequence = 324 Nucleotides)

AAATATTTAC AATTTTACAC CTTCAGGAAG GCTCCAAAAT ATAAACACTG TACCTCTCCC TAGAGAAAAA AAAATTATTC
TTCTCTTCAA AAACAGGAAT ACATTCATTT TTCTCCTAGC TGTAATCAA GTAATTATAC AAATAACAT CTGAAACATT
TTCTTTTATA ATATATTTAT ATAATATATA TTNTAACAG CTTTACAAAT AAAGGCAACG GTCCTTTTCT AATTTTCATG
CCTCTCAACA GAAGGGTACA TGATGCTCCC TGAATTCAG GGTATTTTTT TNCCTCTAT GGTACTTTGT ATTTCACTTT
ACTT

SEQ ID NO:400: (Length of Sequence = 388 Nucleotides)

ATTAAATCTG AGTTTTGTTT GAGCATCTTT CAACATGTAC CATATTTATG ACAATTCTCT TCCATAGGAT CTATCTGTC
TGCAACAAGT ATTGATCTTA CAGTAAAATT TTTCACAAAT TCATTAGATT CTATGCTCTT TTTCTCGTGA GGAATTTTTG
TGCAAGGTAGC TATCTCTTGC OCTAGATTAT TCTCCTTGTT TAGCTGCTGA TTCTTAACT GGCTCTAGA TTTCAGATT
TCTTCCGGTA CAGACTTTCT CTTTGCAAGT NCTTCCATCT CTAATCTTTG AGATTAACTCT TCTTTTGAAA TGTCCTGCTG
CTCTACTCTT GTATGCTTGG GNCACAGTT CAAGCTTCCC ATCTAGCAAA ACCAGGGTTT CTAATATT

SEQ ID NO:401: (Length of Sequence = 339 Nucleotides)

GTTTATTGCT CAAAAACAAG AATTGAGAAG CAAAGGTGGA GAGACTGTGG GTTGGGGAGA TGGCAGGAAG GGGGCAAGGC
CTTGTCACAG CTCTCCCTTT TGCTCTCTTT CTGACCTTCC TGGCCGAGT CAGGCCTAGG GCCAGGGCAT CTGGGAGGGG
GGCACCCTTCG TGGCCAAGGG AACAGTAGAG CTATCGGGGG CAGTCCCTGA GGGGTGCCCT GGGCAGGAGG GGCTGCAAGA
TTTNCAGGGA GGCAGAGTTC CCTTCCAGA ATCCAAAAGC CGGTAGGGGG GGGGGCAAGG CCCCTCGTTT GGCAACTINAG
AAGAGGCGGC TTTTGGGCG

SEQ ID NO:402: (Length of Sequence = 400 Nucleotides)

TGTCCAGTGT ATGAGGAGCT CCCAGCGAGA AATGAAAGGT TCTATGTTTA TGAAAATAAA AAGGAAGCAT TGCAAGCTGT
CAAGATGATC AAAGGGTCCC GATTTAAAGC TTTTCTTACC AGAGAAGACG CTGAGAAATT TGCTAGAGGA ATTTGTGATT
ATTTCCCTTC TCCAAGCAAA ACGTCCCTAC CACTGTCTCC TATGAAACA GCTCCACTCT TTAGCAATGA CAGGTTGAAA
GATGTTTGT GCTTGTGGA ATCAGAAACA GTCAACAAAG AGCGAGCGAA CAGTTACAAA AATCCCCGCA CGCAGGACCT
CACCGCCAAG CTTTCGGAAA AGCTGTGAG GAAAGGGAGG AGGAGGACAN CTTTCTGAC CTTATCTGGG AGCAACCCCT

SEQ ID NO:403: (Length of Sequence = 416 Nucleotides)

AGTTGACTGC TCTGATATGG AGAGACCTGT TAGTCTTGTA TATAGTCCC AGCCGGAAAA AGCATCTCTT GAAGGTTAGG
GCATTTTGTG AGGAGAGCTC TAGGGCTATA TCAGTCTGGA GGTATGATCT CTGATAAAGA TCATAATTCT CATCTCAGTA
ATCTTCTTTA GAACAAAACA TTCTTCATTG TAAGCTTCTC ATTAACTGAA GGCCACCTGA TCTGAGATTT TGGCTCTTAG
AATACTCTTT NCTGTGTCTC AATCTCATA TGGCTTACCT CTGAAATATA GAATATATTT CCTTGTGTAG CCTGGTAGAG
TTGGGTTTTG TTTTGTTTTT CAAACAGTAA CTTTATTTTG ATTGTAAAAC TTCCAGATTT CTGAGATGCC GCCTTACCAG
TCCTAAGGTT GATTTT

SEQ ID NO:404: (Length of Sequence = 368 Nucleotides)

CCTCINACTC ATGTGATGA GTAGGGCGGA GGGCTTCACT GCCTCANTTT CCCCACITTT GGACCTTAAA TCCTCTCCTG
ATGCTCTCA GCCAGCCAG GAAGGAGAGC TAAGACCAAG AGGGATTTAA CAGATGCAGG ACACACAGCC TTGTCTCAG
ACCCCCAAG TCTGAGAGAA GCAAAACACT CACCTTGAGA GCCCTGGGAC TTGGAGGTGA GGTGCAGAAC CCAGGCTGGG
TGTGTCTGA GGGGTGGTGG GGGTGGTGG TGTGGTGG CTGGCTGGG AATACTTTTC TTAAGCTAAG GCTGGGGCTT
AGGGGAGGC CAGAGGAAGG GTAAATAGTT TGCTGGGGG GGTGCTGG

SEQ ID NO:405: (Length of Sequence = 395 Nucleotides)

GACAGGTCTT CACTCTTACC ACAAGCTCA AGTCAGCTTG GCCTCTCAAG TGGAGAGATA ATCGTTCTAT AGCAAGAAGT
ACAAAGATTG TCTGCAGACA AAACCAGCTA GCCAAGGTTC CACAACATGT GTACACGTAT AAGTCTGNTG GATCAGAAGA
AATATGTACC CGGGAATCAG ATGTAGCCAG CCCACATACT AACAAACATC AAAGCAAGCC TAGTCAGATT GAGTCCCAT
TGAACAATCT TTATAAGGT TTCTTCATGT TATTTACAAT TCAAAGTAAA TTTACTTTAT AAGCAGCTAG GGGAAATCTT
TATTTAGTAA TGTCTAACA TAAAAGTTTC ACATAACTGG CTTCTGTCCA AACCATGGAT ACTTGAGCTT TGTTG

SEQ ID NO:406: (Length of Sequence = 358 Nucleotides)

GATACCTTAA TCTAAATTTT ATCTTAATTT TTATTTTAT TTCTATGCTT AAATTTTAT CTAAAATTTT TNCCTAGCTT
TTATTACACC AAGACAGCTT CACATTTTAA TTTATATATT GTACATCTCA TGTAAAGNAT TACCGTATAT AAGCTAGTGT
CATAACTTAA GTAGCCACAT TCATTCAGTA TGTTTTATGT TTCTCTCTG ACTGGATCTC TGATACATTC TTTCTGTTC
TAGCTGCTTT TATGCAAAAG GGCATTATAT GTTTGTCAAT CAACCAGGCT TCTGTGACTG TTTAGAAGGA ATTATGTAAA
TATATAATCC NGTGGCTGT TTCACTTTGG CCATGTTT

SEQ ID NO:407: (Length of Sequence = 294 Nucleotides)

CTGTGTATAT TTAGTATCTT TNATTAAGAA GACTGGTTGA TATTGCTCTT CAGCTAATTT ATAGAAAGGA TGATCATCAA
TGCTCTAGT TTTCTCTTAA GTGGCTGTG TGTGCAGGTA CATATAAAAA TNCACTATA CAAATAGCTG GACAGTTGAG
TCTCAACTAT GAAAATCTTT TCTGGGATCA AGATCTAAGA AGTTGGTGTG TGTATGAGTG CAACCCATCA TTCTATCCCC
TAAAATCTG GGGTTTCTCA GCCCAAACAT TNCACIAGT AAAGTCAAGT TTCA

SEQ ID NO:408: (Length of Sequence = 367 Nucleotides)

GGCAAGGAAA GAGAGCTTTA AATTGAAAGG TTAATTTCTT AAGAGGAACC TGGGCTGAAT GACTGCAGTG TTATACCCCTC
CAATCTTTGC AGGTGGGCAT GGAACACTGC TTGTATCACT CTGTGCACGG TATAAATCCA TATATCCACA AAAACACACA
TCCATCCATC AACATATACA TGGTTTGGGA TGAGCAGGTC AATAGTTTGT AGAGGGAGTT TGTNCCTTTT TTTTCTCAT
TATACTCTTA AATTGTTGTC AGTTATCAAA CAAACAAACA GANAAATGT TTGAAAAAC CTTCATACG CCTTTTCTTA
TCAAGTGCTT TAAATATAG NCTAAATACA CACAGGCTTG AGGCAGA

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SEQ ID NO:409: (Length of Sequence = 233 Nucleotides)

AAGAGACAGG GNCATCTCT GTCAACCTGG CTGGACTGCA ATGGTGTGAT CACAACCTAC TGCAGCCTTG AACTCCTGGA
 CTCAGCANT CTNCCACCC CAGCCTCCTG AGCAGTTAGG ACTACAGATG GGTGCCACCA TGCCAGCTA ATTTCTAAAT
 TTTTITTAGA GACAGGGTCT TGCTATATTA CCCAGGCTGG TCTCAAACCTC CCTGGGCTCA AGTGATCCTC CTT

SEQ ID NO:410: (Length of Sequence = 295 Nucleotides)

GACAGGGGGT GGGGAATCTT ACTCCATGGT ATCTTCAGAG CTAGGATAAT GCTCCTTATG CAATCCCACT GCATATGACC
 ATGGCAGTAG AACAACTTCA ATTACTACAC TGGATGCGTT AAGTGTGCTT TCCTAGCAGA AAGCACCAGG GTGGAGTCAA
 CAGTTCACAT GCTAATACCTT GGAAGTATTT CTAGAAGGGG GTGCTCAATA GAGGCGAGAC ATGATGCAAG NNCITCATA
 TAGAAAGGTG TCCTGTGTGT GCATGCACAG CTGGATGGGG GCACACAGGA GCAAG

SEQ ID NO:411: (Length of Sequence = 304 Nucleotides)

AATAAAAGA CCATTAACCTT AAAGTGGTGT TAAATGCTTT GTAAAGCTGA GATCTAAATG GGGACAAGGC AGGTGGAGGG
 GAGGCCAGTG TACATGTAAA TGCCACAGC CCAGCATTGG GTTTCCTCC CAAGNCCCA GCACCAACCT CTGAGCCCAA
 GACCTTGCCT GAAAACAAGC AGATACCGAT TGNITCATCC TATTTATGGA CATGTAGGTC TAGTTGCATT TTCACTNGGG
 GGAGGGGGGA AGGTGAATTA TGGTAACTTT TAATGATCTA TTCAGGCAGT AGAGCTCTTA AGGG

SEQ ID NO:412: (Length of Sequence = 250 Nucleotides)

CAGGTGCGCA CTATCAGCC CGGATAATTT TTTTGTGTTT TAGTAGAGAC GGGGTTTCAA CATGCTGCTC AGGCTGGTCT
 CAACTACCGA CCTCGTGATC CGTCCACCGC GGCTCCCAA AGTGTGGGA TCACAGGCGT GAGCACCNCT CCTGNCACA
 GGTNGAGACC CTCTCTATAT AAGAAAGAGA AAAATGTCTC TNANTCACA GAGAATGCTA ACAACGGGGG AAAGCACAGA
 CACAAACCTG

SEQ ID NO:413: (Length of Sequence = 337 Nucleotides)

GTACTGGGAC AAGGGAAGGC AATCACAAC AACTGCCCTC AGGAAGAACT CAGTCCCTGA CTGTAGTGTCT TCTTCGGGG
 AACCAATGCC ACCNCTCC ATCCCCAGA CGGCGAGGG GCTGCACCCT TAAAGCAGGC CATTGGGCTT TCCGGGCTCC
 AGGGCCAGCC CACCCGNTC CCGCTGGTGG ATCTTCTGTT GCTGCAGGAG GTGCTGCTTC TGGACAAAGC TCTTNTCACA
 CTCAGTGCAG CTGTAGGGCC GNTACCCGT NTGGATGCGC TGGTNCGNA CCAAGTCAGA TGGGTGACTG AAGCTCTTGC
 CACAAGTAAC CACAGAT

SEQ ID NO:414: (Length of Sequence = 304 Nucleotides)

GGTTTAAGAA CTGCGTTTGT GNGCCCAATC TTTGGTGAAA AATATTTTTG GGTCACTTTT GAAAAAATC CTTTCAAGG
 CAGACAGCAT TTTAATGCTT TGCTGTGTTT TCCCTGTTTG TCAGCTCTGN CACCAGCCTG AAAGATTAA AAATNCAAAT
 TAATGGAGGN TTATTTGTCC TTTACTCAGG TCACATTTCT GGGTTTAAAT GAAGNGACAG ATGCTGCTCA TATACAGGAT
 TTAGCTGCAG TTTCTTTGGA ACTTCCAGAT ATTCTGAAT CACTCCACTT CTGCAGTCTA AATG

SEQ ID NO:415: (Length of Sequence = 315 Nucleotides)

CGTTGTGGAG TGGGTGTCTT TGGATAGAAG GAGTGAGGAA CTGGGGGAGG AAGGCCTGGG GGATCCCTTG GCGGGGCTAC
 TTCTGGGCC CGGNATGGAC ACCTGGNAGC TGCTGCGNTT GTTGGGGTCC TGGCAGGGGT GTGGTGTGGC CCTCACCCT
 CTGNTCACCT GCTCCTTCTT NACAGTGCTT GGAGAAGTTC CCTGTNATCC AGCCTTTTCA AAGTTCGGNA GCTTNTGCCC
 CATCCATCCT GTCACGTCCG GCTAGGAGGG GNCAAGCCGA AGAGCCACCC ANGNACANT TCCTGTGCTT GCCTT

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SEQ ID NO:416: (Length of Sequence = 343 Nucleotides)

GTATTTCAAG TGTTTTATTT GCITTCITGT GTGTCAAAT TGGGGTCTCC TAGAGCCCAG CCCAGGCAG AATCCGGCAT
ATCCTTCTCC GCCTGGGGGG CCGGGGACAC AGGAGTTTCA GAAAAGGCAC TGGCAAAAGT NCTAGGGCGG GGGTCAGGGA
GAAGCCACAC TGAGCCTGGA GGGACCGGC CCTCCTTCGG CGGCAGAAAA CACAGTCACC TTINGCAGGG AAGGGTTTTT
NCCTAGAAAG AAATTTAAGA CAAGATAAAA ACCTGAGATG TTAGAGGAGC CCCAGAACC AAGCCGGTGC TNCCTTGGGC
AANCAGAGAG TGAACTCGGC TTT

SEQ ID NO:417: (Length of Sequence = 202 Nucleotides)

TATTTCTCTG TGAAGAGGG GAAAATAAAA GGAATAAAT AAAAACGGCA CAGTTGACAC ACAAAAAAA ACCAATGATG
GGGAGGACCG GAGGTGGAGA AGTAAATGGG GGAGGGGNTC CCATTACAGC AGCAGGATCC AGTNACCCGG GATGCTCACA
TCINICCCIN ACGTGGGCGG TGTAGCCCTT TCCTCCCAAG GT

SEQ ID NO:418: (Length of Sequence = 299 Nucleotides)

CACCAATTGG CTGCAGAGCT GTCTTCAGGA TCATAGGCCA CTGCCAGAGT CTGGAGAGA GGGAGAGATG GAGAGGAAG
GAGTGAGCTT CGGTGGTCTG ATTTCTGGCT CAACGACGCA GGAACCTCAG GTTCAAAAGC AGCTGACAAG AGCCAGAGA
CCGTCTTCTT GCGTCCCGC AGAGCCTTCT GGTGGCCCGA CCCCCAGCA NGGAGGGAAG GCCCTGAAAT CCCGTTTTTN
TGGCAAGATT NGTTCCAAG AGGAGATAAT GGCTCAATTT TGCTTCCCA AGTTGATCA

SEQ ID NO:419: (Length of Sequence = 223 Nucleotides)

ATTGTGGGA AGGTAACATT TTCCATGGT TTINATTTIN CCCAAAAGTA TTTATGTATT GATTTATTTG GNTCTGACTC
AGGOGACGTA CTGTAAGACG ATATTACTTT AATCATCTTC ACATCAGTAT TTATGGAATA GCCACAGGTG CCTCATCCTT
TAGTAGGAGT TAATTATACA TTINCTGGCC GAGTAAACAT NTCCGAATGG TATGTATGTA TTT

SEQ ID NO:420: (Length of Sequence = 406 Nucleotides)

TTTAATAATT AAGTTAAGTA TATAACTTGC CCTATGCCAT ATTGCTTTAA TCAGGGGACT GAGCATCACA TTTAGATTTG
ATGAGTTTGG GAAAAGTTCT CAAACATCCA GACCCATGGA CCTAAGAAT TACTGCAGAA ATCTCCTTCA ATATAGTCAT
AGGGAGCATT AATGCTTTTG TGGTACTAAA CATATTTTGG AGCTTAGATA CAAATCCTTC TTGTCTGAA CTGATAGGGT
AGGAATTGTT TAGGTGCTTC AAATCCAGAT CTTTCAGGGG TTGCCACCTA AACTCATCTT TATGAGTAAC TCTAGATAAT
AATACACTTT GGTATCTTCC AAAGTGCTTA TCTAGGCATG GAAAAGTTCA GTAATTATCA TGAGGNCCTG TTTTLAGGTT
AGGTCC

SEQ ID NO:421: (Length of Sequence = 281 Nucleotides)

ATCCAGATTG CTGACTTGTA CACAATGGAC CATATGINCT GTCCAAAATA CACCTACATT AACTGTGTG GAACANGAAC
CTGGGCTTTG CAAAAAGAA TTTATGATTA AAATGTAAAC CCCCCAAA AAAAATGAAG CTTAGAATTA AAGGTAGCCT
TTTACCCAGA TTGTACCA GNTGTAAAA TTCTAATATG GGTCAATTAAC TGTTACAAA TAATTCATAT TTGNCCTAT
GGTTTAAGGG CTCCAGATTG AAAAGTGCT CTGAACCTCT G

SEQ ID NO:422: (Length of Sequence = 220 Nucleotides)

TTTGTATTTT TAATAGAGAC GGGGTTTTGC CATGTGGCC AGGCTGGTTT TGAACCTCG ACTTCAGGTG ATCTGCCTGC
CTCGGTCTCC CAAAGTGCTG GGATTACAGG CTTAGCACT GTNACTGTCT GCCTGGCTGG CTGGCTGGCT GGCCTTCTTT
CTTTCINTTT TCINICTCTC TCCTCTCTC TCTTCCTTC TTTCTTCTT CPTTCTTCC

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SEQ ID NO:423: (Length of Sequence = 391 Nucleotides)

CTGTCTCTTA TCTGGGCAAG CTTTAGACAT ACTAGCTTGG TTGGAACTG ATATTAAAAG CCTAAAACAT GTAACCTTNC
 TTATCAGGTT ACTATCATGG GGAACATAAG ATTCCTGGTT TTTTGTATGT NCCATAACTA TACTTTAGTA AGCCCTGATA
 TACGGTGTTA ATTTTCCINC AGTGAAGGAA ACATGAAGAT ATATTATGT GCACACATAC ATATATATGT ATATATAACG
 TATATTCAA CATGCACTCA GAGGAAGTTA GGGAGAGAAG TTTCTAGCTA AACATGATCT TGTGAAATTC TTCCATATGT
 GGAAAAGTCG TCAGTTCATC TGACATAGAG CAATACCATA CATATATACA CACAGGTGTC TATGGTATAC A

SEQ ID NO:424: (Length of Sequence = 379 Nucleotides)

TGGGGAGCCT GAGGCATGAG AATCGCTTGA GOCCTGGNGG TGGAGGTTC AGTGAGCTGA GACCCCGTCA CTGAACTCCA
 GCCTGGGTGA CAGAGCAAGA CTCGTATCA AAAAAACAAA CAAACANACA AACAAAAAG CCTATTATAA AACAAATAGGA
 AATGCTGAAG TCTAGTGCAC CAAGACATAC TGAATTCAA ACTAAATAAA TTAATAATTAT CATGTACATT CCACTACATG
 TCAAAACAGG AAAANCCATA GTATTATAGT TGATATGAAA TGANGATTAC ATACANCACT AATACAGAGN AAACATGAAG
 CTGCTTATAT TTATTGGGN ATAAGNCAN CAGGGGCCAA TGATTTTCAC TGCAGATGT

SEQ ID NO:425: (Length of Sequence = 448 Nucleotides)

TCCACAGGGC GGCTGGGGT CTGGAGATGG GCGCTGGGCC CACGGGACGC AGATGGGGCC ACGCTCTGCC CGTGGCTGGC
 CCACGTTCTT GGTCTGCAGT GCTGCTCTCT CCCAGCACC CCTGGGGCAC AGAGGGCAGG GTCACAGCTG GGAAGAGGTG
 GGGGGTAGAA ACCAAGGCTG GCAGAAGTNT AGCCGGGCTC CCTGATAAAT GCTGGAGGAC CCCAGGGCAC CTGCACCTAC
 TGTACCTCT CTGAGAGCAT TTGTATGATC TCATGTCTCA GCTCTNNAG GCTGGAGGTC CCAGAAAACC AAGGTATGGG
 TAAGATTGAG TCTCTGGTG AGTACCCAGT TNCCTGGCTC TAGATGGGCG CTTTTTCCCT GTGTGTCTC AAATGATTGG
 ATGAGGCCAG GTGTCTCTCT TGGAGTCTT TCTGTAAGG CAACTGAT

SEQ ID NO:426: (Length of Sequence = 417 Nucleotides)

GCCTGGNICA TCGCTGTCTT TTCTCTCTG TCAGAGTCAG TGACACTGAC ATTAAAGTCA TCGAATATCA ACCAGGTCTT
 GAGGACCTTG GTGTGTTTCC TCCCTCTCTA GTCTCCAGAC CCCAGCCTGT TCATTCTGA GCTTCTCTG GCACCCCTTC
 CTGGGGCCA AGCCAAGTAA GAAATCAGCA GGCCCAAGGT GGTGCTTGGG AGGCCGGGC AGTGCCAGGG GCAGTCTCA
 TACCATCTC CCACCTGCTT CCTCTCTGCC TGTCTCTAGC CGCCACACAT ATCTCAGCTG TCGAATCCGA TTAGGGNITC
 TGNCCAGTGA GCCAGACAAG GAGGCCACTN GGCAGGGGAG AGAGAGACAA GGACGCCAAG CAGGGATTGG CAGAAGGAAG
 GTGGAGACAT GGCTCAA

SEQ ID NO:427: (Length of Sequence = 317 Nucleotides)

AACCTGTCT CTAATAAAAA TACAAAAAAT TAGCTGGGCG TGGTGGTGGG CGCTGTAGT CCCAGCTACT CGGAGGCTG
 AGGCAGGAGA ATGGTGTGAA CCCAGGAGGC GGANTTGAG TGAGCCGAGA TAGTCCCTCT GCACTCCAGC CTGGGTGACA
 GAGCGAGACT CGTCTCAAA AAAAAGGGCT GATAATGATA AACAGTGAGC ACTCCGGTCC TTTTCTTAC GTTTCTCTT
 TTTCTCTCT CTCCACCCCA CAAGTTTGC TTTTAAACA AGGTGCTCT GCTGATGGA AATTCACATG CTAGTCT

SEQ ID NO:428: (Length of Sequence = 296 Nucleotides)

GTAATTACAG TATTTCACG TAGAGACGGG TTTCTCCATG TTGGTCAGGC TGGTCTCGAA CTCTGACCT CGGGTGATCC
 GCCTGCTCG GGTCCCAAA GTACTGGGAT TACAGGTATG AGCCACCGTG CCAGCCGGT TTTTTTTTT TTTTGTAT
 AGCAATGGAA GAATGGCTC GTACACACGN TAGAGTGAA AGTCCAGGC ACCAAGNIT CCCACCTAG AAGCAAGCTC
 AGGCTTTCT CTTCATCTT CCAGGAGAG CACTGAGAGA TGATGGGGG TTGGCA

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SEQ ID NO:429: (Length of Sequence = 422 Nucleotides)

GAGGGTGGG GACAGGAGAC AGTGGGGTGG GAAATCCAAA TCTCAACTGC TTTGTACTG TCTCCTGCTC CCGAGTGCCC
CANAGCCCAT GCAGACCCTC TGCTGTCTAT GATATCCTGT TCAGCCCTCA ACTTCTCTA CCATCCCTGC AACTGGGGTT
CACTGTGAGC CAAACCAGTT TGCTTCTTGT TTTCTAAAAG CAGGCAGCCC TTCAGGACTG TMTCAATTCA GGCATTTCCC
ACCTCTNITC TCCACTCATA TCCCTTCCCA AACTGCCTTT CCTCATTTCT CCGTCTCCAG GGAGAGGGAC TNCAGGCTAC
CACAGNCAA AATGGTGGTC TTCAGTCTA CGTAAGNCAA NCTGTGTGAG TGTTAAGGA CTNAGGGTTG CTCACAAGGG
GACACACAGA NGTGGATGCC AG

SEQ ID NO:430: (Length of Sequence = 332 Nucleotides)

CGGATCAGC ACCCGGGACA GCGCCACGC CCACTGCAG GGGNTGGGT CCGGGCGGG CTNGCGCTC GGGTCTCCC
GGNAGTNTCC CGTCCAGCG TCGAGCAGGG TGCTTGANTN TMTCTGCAGA AAAGACTCTA GGACCCCGCC ACCATGTTCC
CGGAGCCCC AACCCCGGG CCTCCATGCG CCGANACGCC TCCGACTCC AGTCGCATCA GCCACGGCCC AGTCCCCCCC
TGGGCCCTGG NCACCATCGT GCTGGTCTNA GGCCTCTNA TCTTCAGCTG CTGTTTCTGT CTCTACCGGA AGAGCTGTG
GAGGCGGACA GG

SEQ ID NO:431: (Length of Sequence = 413 Nucleotides)

TGTCATTATT TAAGATGGG GACATCCAAG CACCTGGAAC AAAAAGGACA CTAAGAATGG GAGAAGAATA CACAAAGGGA
GGTAGTACAG GGCCAATAAC AGATTTTGG AATTTTCAA ATTTCTCTT GAAGTAATTT TACAGTCAGT AAATGGAAGT
GGAAAAGAG AATAGAAGAG CATTTCATT ATTTTTTTT TCTCTGTAC TTACACATCT CATGACCTCA TGTCCCGAGA
ACTTAACACT TAGTGGGTT CTAGTAGATA TTTTGGGTTG AAAAGATGTT TGCTGTTTG CATTGTGTTG TGTGTTGTTG
GCTAGCCTGT GAATCTAGCA TTGTACGTGA GAAAGTGCAT TTCAGATTGA AAGCAACTGG GTTTTGGAAG TGAAGTTCAA
TAACATATCC CAG

SEQ ID NO:432: (Length of Sequence = 292 Nucleotides)

TTCACCGTGT TAGCCAGGAC GGTCCTGATC TCCTGACCTT GTGATCTGCC CACCTCGGCC TCCCAAAGTG CTGGTATTAC
AGGCGTGAGC ACGCGCCCG GCCACCATTC ACTAATTTTC AAGAAATGTG GAAGTGTCT ATATTNCTT CCGACTCCAT
AGCTCCAACA TTGTTGGCTA TTATGAATTT GGCTATTAG TGATGCCAAC AATATTAAAT GAAAAAAGA TATAGCAGTA
TAGTTGAAGG AGGAAGCTGA AAGAAAACGG TCCATCNGTG AGGAAAAGGC CC

SEQ ID NO:433: (Length of Sequence = 335 Nucleotides)

TTTTTTCTC AGCAGAGGAT TTTATTGGTG GTCACCTGTG GCACAGGTTA GAGGAGCCGA AGTGCTGTNT TTGTGGTGGG
GGGGGGACCA CAAACCCCG CCTGCCCTC TTGCTTACAT AGGCTTCCCG CTTAGAAGCG CACATGAAC ATGCGCTAC
GGATCCGGTT GTAGTCTGGG AGCTGCTCAA TGGGGCCATA TCCAGCCACT GCTGGGGCAC TGGTCATAGA TGTACTTNGA
GCAGATCTCA GTTACCACAC TGGCATCCAC CTCGCAAAT CCGGCTTTCC CATTCAGCCA GGGGGGATG CCGGNGGGCC
ATAGGTCAGG AGGCT

SEQ ID NO:434: (Length of Sequence = 390 Nucleotides)

GTGCTGACT GCTGATTGGA GATGACGTGT ACCCATCTC TAGACAGTCT GTGCTTTTCC TGTCTTTGGA GCTTCCAGTT
CCACCCCAT CAGTTTTTTT CAGACCTC CATCTGCTT TATTTCTCT TCTTTCTTT TGACTGGAAG AGTACTCATC
TTTTCTACA TCTTTTATA AACTGTTTTG ATTTCACTTA TATTGATTTT NAACGTATAA TGTGCTGGTG TTCTATTTCC
TCAGTTAGAT CAGAAGGCC CTAAAGACAG GGCTCCATTG GTGTAAACT GCCATCTCA AGGTCTGGGA CTTGATTTCN

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CTTTTINAC CTNCACAACA AGGCACTCCT CTTGCACCCA GTGGGAATTT CAGTGCCTGT GGGTCAAAGT

SEQ ID NO:435: (Length of Sequence = 427 Nucleotides)

TCACTAAACA GTAGATTTAT TTTATGTAGA TTTGTTTTTC TATAAAAATA TATTTATGTG TTCACAGGAA AAAAGTTGAG
TTGGTATGTG GGGGTGACTT TCAGATACAT AATTAGTTAA AGGTTTGCTT ATGAAGTTAG AAGGCATCTT AGCTTTTATC
ATTTTCAAAT TTTCTTCAT AAAAAAGAAC ACCCTGTGAC AAAGATAAGG TAACTGAGAT TATTATTAGC ACTTTAGAGT
TGAGAGAGTT TGAAATAAAA AGGTTAAGCA ACCTGCCTAA TGTTTATGTA CAAAATCAGT GCTGGAGCCA GGAAGAGAAT
TTGGATTTTC CCAACCCCTG GACAGTTCTC TAGGGACTCA TGCCCAACCA CCATCTCTGA GACTATATAC AATCAATTAC
ATTAAATGA TATTGACAGT AGACTAG

SEQ ID NO:436: (Length of Sequence = 249 Nucleotides)

TCAAATAACC AGGAGGGGGA CAGAAGATGA TGGCAAGGCA GACTGGGCAG TGTTTNTAG ACACAGAACA AAGAATCAGA
ATTTGAAAAA AGANGAAAA CAAATCTNCG CAGCTGCAAC TTTAAAGTAT CACCTTTATA GATGGCAGGG ATTTCCATTA
TGCAAATGGA ATCTAAGATT TCAATGTGNA ATCTTAGAAT GCAGTTTAC CACTTGCAGT CTNGTATTTG TGGTGGCCAT
GTGGTGAGT

SEQ ID NO:437: (Length of Sequence = 404 Nucleotides)

GTCATTCACC CTATCCCTC TTTCACCTC ACAGAACITT CACACTCCAA TGTACTTGCT GTTTGTAGAT GCTCCTATAA
ACAGAAAGCT CTGGGAGACA GGTGCTTGT TATTCTTGCT CTCTGTCATA TCTCTGGGCC TATCACAAGT ACTCAAAGCA
TAGAAGTTCA ATAAATATGT GTTCAATGTA AGAAATGATC AGTGATTCTC AAGCTGCAGT GGGGTCAGGA TAACCTAGAC
AGCCTGTTAG CACGGNTCAC TGNNNCCAC CCCCACAGTT TCAGGTCGCG TCTGGGNTGG GGCCCAATAA TCTGTATTCC
TAAAAGTCCC CAAGCAATGC TGGTGCTGTT CGTCCAGGGA CCATGCTTAA AGAACCACCC GGAATAGGAC TGGTGGACAA
AAGG

SEQ ID NO:438: (Length of Sequence = 337 Nucleotides)

CTGCAACTTA TACCTTCCAT TTACTAAAGT CCCAGTATGT GTCAAAGTAG TTTTCATTCC TCACAGCCAT GTTATGAGCT
AAATATCACT AACTTTCCCT TTCAAAGGTG AAATAAAGTG AGACTCTCGA AGATTAACTT GCCCAAGGTC ACCTAGCTCG
TTAGGAGGCA CAGGTGGGAC TTGAACCCAG TTCTTTCTGA ATTCAAACCC TCCAAAATGT CTGTACATC AAGCTGCTTC
AATGAGATGC TAGAAAATCA GGACAGTGAG CAAGCTGGAG ATAANGGAAG ATATGGAGGA ACACGGGAAG TGTGATCCTC
ACACACATAC CCTGCAG

SEQ ID NO:439: (Length of Sequence = 380 Nucleotides)

CATCGTGTAT GAAGGTAGCC ATTTTGTACA TGTTACCTTG TTA AAAACAA AAGAGCAGCA ACATGTTTAG AGTGGTGTCT
ATAGATAGAA CACTGCTGTT ATGTTTAAGG AAAATTGGGG CGGGGGCAGA AAAGATCAAT ATGACTAGTT AGAAGACTAT
TAAGGAGAAC TTTGTACATG AATTATGGAT GTAAGAATTA GAAAAAATA GATGATCATG TTCAGAAATT TAGCTTTTIT
ACAATTGTAG TGGAAAAGAA AACTCCTAGA GTAATGAATC AATGGTATCC TACAAAAAGA GAGGTGCCAA AAATACCATG
AAATATTATA TTA AAAAATT CACACGNATA GGTAGTTATA ATATGTAAAG GCCAGACTTC

SEQ ID NO:440: (Length of Sequence = 335 Nucleotides)

CCCTGAGCIT TTATTGACCA GTGGACTGTG ACTTTTGATG TAATTTTATT TTGAGAGAG GGTCTTGCTC TGTCACCCAG
GCTGGAGTGC AATGGGGTGA TCTGGCTCA CTGCAACCTC CGCTCACGG GCTCCAGTGA TTCTCCTGCC TCAGCCTCCC
GAGTAGCTGG GACTACAGGT GCACACCACC TTGGCTGGCT AGTTTATGTA ATTTTITGTA TGTCTGTGGA GACAGGGTTT

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CACCATGTTG CCCAGGCTGG TCTCAAACTC CTGAACTCAG GTGATCTACC GGCCTTCCAA AGTACTGGGA TTACAGGCAT
GAGCCACCAT AATAA

SEQ ID NO:441: (Length of Sequence = 356 Nucleotides)

ACTAATITGG TTTCTGCTTC AACCTGCATT TCCAGAGGTG CCTGTTGGTC TGTAAITGGT TCTGGCATGT TTATAGGTAT
TACAAAACCA AGTCTTATTT TGCATTTTAC AGGATTTAAG ATGAATAAAG TGATGTGGTT GTGCTAGGTT AGAGTTGTAC
AAATTATACT CCCATGCGG ATGGTGGCGT CCCAGGCTTA CAACCTGACC TCTGCCCTCA CGCCCATCGT CACGCGCTCC
CGGTGCTTCA ACGAGGAGCC CCTGACGCTG GCGGGCTTTC AGCAGGGNCC CGGCCAACCT CAGTGACGTG GTGCAGCTCA
TCITTCITGGG TGGGACTCCC AATCCCCITT CCTTT

SEQ ID NO:442: (Length of Sequence = 371 Nucleotides)

GATGATTTTG TATCTTTTTC TATTTATTGA GATAATCAAA TGATTTTTGT CCTTCGTTCT ATTGATGTGA TGTTTATTGA
TCATGTTTAT TGATTTGCAT ATGGTGAGCC ATCCTTGTTAT TCTTGGTATA AATGCCACCT GATCATGGTA TATNATCTTT
TINATGTGCT ATTGGATTG GTTGCCAGT ATTTGTGTGA GAATTTTTTC ATCTGTGTCT ATTACGGATA TTGGCCTGTA
GTTTTTTTTG CTGTGTTCTT CTTTGGTTTT GATATCAGGA TAATGCTAGC TTTGTAGAAT GAGTNAGGGA GGAGTTATCT
ACTCTTCAAT TTTTGGGAAC AGTTGCAGAA CTGTGTGTG TTTTGAACA G

SEQ ID NO:443: (Length of Sequence = 329 Nucleotides)

TGAATGCCT TTATTTTTIN ATTTCCATC CAGAAACCC AGTGTGATGG TGAAGCAGC ATGAAAACAA CATCTCCCA
GGCCTGCGAG TAGAGGCGAA GGAACAGAG CTGCCCATGT GCTGTINTCT AAAGACGCCA CCTCAGGTT GATGTACCT
GTGGGAGACC GGTTCACCT ACAGACACCA GGTGATGGT CACCAGGCC CAAGCTCCAG CCTGCTGAGT CCCCAGACA
CAGGCTCATT AARTAGCTTC GTACAAAAC CCAAGGGTGT CCTCCAGCT GGTAAAAAT TGGGCAATTT CTACTTGGAG
GTCTGCTGT

SEQ ID NO:444: (Length of Sequence = 358 Nucleotides)

TTTTTTTTTA AGTACATAGG TCTTTATTTA AACACTGATT TTTTTTTTAA ATATATACAC ACAAACCTTA GTTCAGCAAG
GCTTCATGAT ATACACCAAT TCCAAAATAA AACAATCAAA TGTGCCAGGT GTAGAATGCC AGATTCCITT TATCATCTGC
GAGGAAAAGA GAAGCAGGAT GAGGAAGAGT GAGGGAAGGC GGGACAGGC TCTGCCAGA NGAGCTGCCG CCTCCTGGCA
CAGCAAACGC TCCAGGCTG GGCCTGTTT ATATCTGGAG TCGGAGGGAG ACTCCCATCG GCGCTTTTG GACTGAAAGG
CCCAAGGCTG TCACCAGGTC CCGAAGAGA GGGAGGCA

SEQ ID NO:445: (Length of Sequence = 302 Nucleotides)

TCAGAACGGT GAGAAATAAA TTGCTGTGT TTATAAAGTA ACCTGTTTAT GTTATTTTTT TATAGAAGCC TGATCAGAAT
AAGACATAT TGGATAGAAT ATTCAGGAAT GTCTTGCTTC CAATGTGGC CCCCCTGTAC TGAGCTCTAA TCTACACTCA
CCTAAAAAAT TATAAAATCA TAATAAACT GAAAAAGTCA AACTCTCAAT TGATCCAG CACAAATATC ACAGNTGNTT
ATTTAAAAA TTATGTCAAG GCCCTAAAA GCTAAATCC NCAGNTCTGC TAATATTTCT CT

SEQ ID NO:446: (Length of Sequence = 367 Nucleotides)

ATATATATAT ATACACACAC ACACATACAT ACATACATAC ATATACATAA CCTGTITGG GTAAGGCCIA TTGACAGAAG
CCGATATCT GGGTGAAGT TAGAAGATGG GCAAGGAATT CTTATCTCAG AGTTTCAACA CTGOGACAAT GTGGAGAGAA
GTCTCCTGGG AAAATGCAGA TGCCCAATAA CTCCAAAAG AATCAGGGAA GTTGGAGTAT TTTTGAAT TACAGTGTCT

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TTACTTCAGT AAAACAAGCC ACAGCAACAT TATGCTCTGC AGAGTCTTCT GTTCACCTTT GGGATGGAAA AGAGCTGCTT
CTCCTAGGNN GGCAACTAAG GCCCAGGACC AAAACTCCCA TCTCCTA

SEQ ID NO:447: (Length of Sequence = 295 Nucleotides)

CTGCAACCC TTCAGATTT AGCTAAAGTT ATTTCAAT TCAATGCTTG TCTTGCACTG TCCTGGTCAT TTAAAACTG
GTATCTCTC AATAGCAAAT AGTATCATA CAGACCACTA AATTGGAGG GAAAGTGGTT TCTATTGCAG ATGGATGTAA
TTAAATTTGG TGTAATCAC AGGTACAGA ATTCTTATCT GGTAAGAATT CTGACTTTTT TTTTAAAGAA GAAAAATAT
ATCCAGATCT GTATCCACAT GCTATTTAAA TGCTCAGGNC AAAAGAAGC CACTA

SEQ ID NO:448: (Length of Sequence = 233 Nucleotides)

CAGAATCAGC CCAATGCCC ATCAATCAAC TGTGCATAA GAACTGTGA TATATATATA TCATAGAAGT TCAACAGAA
AAAATACAAA AAACCTAGCA GAGGATTGTA TCCTTTGCCG TTTATTTTGA TGACCATGCC ATCTTCTAAT CCCCAGAAAA
AACTGGAAA ACAGAATAA TATAATTNC TGATTATNCT TATGTACAT AAATGGAATA TATATATATA TAT

SEQ ID NO:449: (Length of Sequence = 341 Nucleotides)

ACTTCCTTC TCAGGCTCCT GTACCAATCT TCAATTCAT TGGGATGTCC TAGTCTAAAA CATTTATTTT ATTGAAAGG
AAAAATATCA ATTTCTATCT AAATGGAGT AAGATTCAAT TCAGATGTGT TTTTATACAA AACATAAGTT TGTATTATAT
CTGTGTTTAA TTGTATCNG GAACATTACA GTAAAGAAC ATTCATGTA AAGAACCAGG CAACTGGCC AGGCATGGTG
GCTCACCTT GNTAACCCA GCACTTTTGG GAGGGCCAAG GCAGGTGAAT TGGTTGAGAC CAGGNGGTTT AAGACCCAGC
CTGGGGCAAA TATTGGCGAA A

SEQ ID NO:450: (Length of Sequence = 313 Nucleotides)

TTTTTTTTT GACACAGTTT CCAGTCCG GAAACCTTAG CTAATCTTTA GCATTCCTTC AATGGTGGGA ATGGCAACA
GATCACCATA GTATTAATAC TCTGTGTAAT TTTATCACTA GAATGGTTAA TTTCCATATC ATAGTAGAGC TGTGTCAGAT
ATTTTGAAAT CCATTTATAC TCACTGCCAC TTCAAGATTA CTGTAGTTGT TAGAACAGCT GCTAGATCTT ATTACTTAAT
AAATTAATAA AGTGTGAATA TAACTATATA ACCATTTTNA AAATGTTTTT TGGATAACTT TCAATATAAT TGG

SEQ ID NO:451: (Length of Sequence = 351 Nucleotides)

GGGCGGCTC CTGGGCACCC ACCCAGCTCA TTGGCGAGC GGCTCCCTC CTGGGGTTGA GTGTCTGGG CCTGAGTCTG
CAGCCTCAGC CATCTGTTC CCACTTGAT CTCCACTGC TAGTTACAAA CAAATCGCCC GGCTTGTCGA AACCTCTGG
GCTCAGTCCC CAGTCCCGG GGGCATATT TCATTCCTC CTAGCCTGTA AGGTTTCTCC TGAAAAATCT ATTGTTAGTC
TAATATGAAT TTCTAATAT GTGACTTAAG GCTTTCTCT TGCTGCTTTT AAAATTTTCT CTTTGTCTT TGACTTTGAC
AATTGGCTA TAATGTATGT TGGAGAGGAC C

SEQ ID NO:452: (Length of Sequence = 363 Nucleotides)

GACAAGGGAG AATCTTGCT TTACCTATGG ACTGGCTTAA CGCGTGTC ATCCGAGGAA TGTTCAAAT GTGTCTGTGT
TTCTTTTAC ATTCCTTATT GTACCTCAT GTCAATCA CTTTGTAAA TTCCACCTAA CATTTAATTA TTTTAAATTT
CTCGTCATG AAGTTATTTT AAGACACTGG AATAAGTGA CTTTGTGTTA TAACAGCATA GGATTATAAA CAACCTAAG
AGTCAGCAGT GACATTGATG GCACATGCAT ACAATGGAAT ATTCTGTAGC TGTTAAATA ATAANGAAGA TCCTGCTCTG
TGTATTTGAT ATGGGAAGGC CCCCAGGT CTACAGTTAA GGG

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SEQ ID NO:453: (Length of Sequence = 382 Nucleotides)

ATGAGGGAAA AGATGGTGCC ATGAAGATA TTATCAGT GCTGAAGACT GTNCCCTTTA CTGCTGCAC CGCCAAGCGT
GGCTCTCGGT TTINCTGCGA ACCTGTCTC ACTGAGGAAT ACCATTACTA AACTATTACT CTTTCTCACC TGATGCTCTT
AAAAGATCTT AGAAACCAAC CATACAGACG AGCCGATGCG GTGAGGAGAA CGTCAGGCG GCGCTTTGAT GATCAGAACT
TGCGTTCTGT TAATGGTGCC GAAATAACAA TGTGAACCTG AGACTGGCCT GCAATGAATA CAGGGGTGTG CGTGTTCAGG
AGGTTTCTG TTGCGTCCAC CCATGATGCG GGGCCINCCC APTTGGGCA ACTTTTCTG GG

SEQ ID NO:454: (Length of Sequence = 391 Nucleotides)

CGTCTGCCG GTGTGACTG CTGAGAAAT AAGTTAGGA GAATCTAGAT ATGGTTGAAT TGTCTTGTCT GCTCAAAAT
TGTTCCTTG TGACAACAAC AACAACAACA ACAACAACA CAACAACAAC AACAGGTGAA ATTATCTTGA AATCAAAAAG
AAGTCTGTT GGTCTGAGA GTGAAAAAG GAATCTTAA CAGCTTCAGC TTGCACCAAG AGGATTTTTT TTTATCAGCT
TCCCTTCATA AGAGAGGATG GAGGATTTTG GAAGAGACAG AACCTGGGAG AAATTTCACT GAGCTGCCAC TTAATGGTTT
AACCTACTTC CACAGAAGGA ACCTATTATT GTTNTATTG GGAATTCAGT AAATGTGGGC CATGTAAAGG G

SEQ ID NO:455: (Length of Sequence = 282 Nucleotides)

TTGAGTACTC ATTTGAGGAC TGCAGTCATA GATTTAAAGT GTAATCAGTC AACTCAGTGG AATTACTTTC TCCATTATC
TTAAATTGCT TCAGGACTGT TTCAGCCTAA GCCAGTAGCT GGGTTTAAAC AAATTGAGAG ATTTTNCIAG GAGAGTTTGG
CAAGAGGAGA GAGGGGCAAA GCGGTGTAA GCACTGTTTA TAACAGTGGC CCATGGAATT GATCATGGGT AAAGAGAAAA
CAAGGACATG CGAGGAGGTG ATAAATAGAN CAAACAAG CA

SEQ ID NO:456: (Length of Sequence = 340 Nucleotides)

CTAATTATG TTTGAGATCT TCAATGAAAT TAGTTACTAA TATTINGCTT TATCTTCTC AAAAGATTTA ACATGATAAT
TCTGACCTAA TCCAAAAAA AAAAATTCAT GGGCCACTGT TTTGCATGTA ATATGTAAGA NCTCACCTTG ATGTTAAACT
CCAACCCCTG GCTGAACAG GTTAATGATC ATTTGNGT ATTTATTCT ATAAATAGT TGAAGTTGGC CAGGCTGGT
GGGCTCTGCG TGTGCTGCC AGGTTTGGAG TTCGGTGGC CAAATCTCG CTTCACTGCA AGCTTCCGCC TCCCCGGGT
TCACACCAT CTTCTGCT

SEQ ID NO:457: (Length of Sequence = 338 Nucleotides)

ATGAAAAAGT CTCAGAGAT TATCAGTGG CGGATGACAT TTGCCCTCTG TTGCTATTCT TTGACATTCA TGAGATTGCT
CTACAAGGTA CAGCCTCGGA ACTGGCTTCT GTTGCATGC CAGCAACAA ATGAAGTAGC CCAGCTCATC CAGGGAGGGC
GGCTTATCAA ACACGAGATG ACTAAAACGG CATCTGATA ACAATGGAAA AGGAAGAACA AGGTCTTGAA GGGACAGCAT
TGCGAGCTGC TGCTGAGTCA CAGATTTTAT TATAAATAGC CTCCTAAGG AAAATACACT GAATGCTATT TTTTACTNAA
CCATTCTATT TTTATAGG

SEQ ID NO:458: (Length of Sequence = 370 Nucleotides)

GTTCCTTTC GGAGCTGAAC CAAAGAATGT GCACCTCTT TCTCTAGTGC TGTGGTGTCT GCTTATTTT GTATTGTGCT
TTTCCATCCA TCTCTGTGA TCACAAGGCA TTCTTAAGGT TTTCTAGCAC GACTTGGGA CATCCAGACT CGTGGGGGGC
CCACCATGG CTCGGTAAGC CAGCAGCCA GGGCACTGGC ACTACATGA GGCATGCTAT TAATGTGCTG ATACAGCTGT
TACCCGACGG CGCACACAAG CAGCAGGTCA ACTGCCAAG GGGCCCCAT CACGGTCACC AGGCGTGGCC CAGGTGCAA
AGGAGGAAAA ACAAAATTC TGGTTCCGT GTGGGACAGT AAAGCAGATG

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SEQ ID NO:459: (Length of Sequence = 339 Nucleotides)

ATTTTCCTAG AACTGAAATC ATCTACGGTT CTCAGAGCTA AACTTCCAAA GCTACAGTCA GCAATTTTTC ATCAGAGCCC
AAGGGAGAGG GGCCAGGGTA AAAGAGACGA GACTGTAGAG AGGCATAGAG AGACCACTAG GAAGAGGGTG GGAGAGGGCA
CTTATTTCTC TCTGTCTCT CAGTGGGTTA CAAATCAGAT CTGTGACAA CACTGAGGGG GCCAGGTCAG GGTATGTGA
TGAGAAATGA CACTGGAAGG AACATCAAAG CCGCAGCTAC AAAAAGAAAG TCATCAAGCC CCAAATAGAA GGGGAGCCT
CCCACTGCAC CTCAGAAAT

SEQ ID NO:460: (Length of Sequence = 380 Nucleotides)

GAGCTTTTGC ACTGCAAAAG GAACAGTCAG CAGAATAAC AGACAGTTAG AAGTACTTCC CTATGTAGAG ACACACTCAA
GTGAAAGGGA ACCAGGCTCT ACCACTTGAA ATAAGGAGTA TCAAGGAAC TGTGGACAGC TTTTAAACT ACCACTGGCA
ACTAGGTCTT GAGGTGGATA AATGAAGAAA TTTGGGGAAT CTCACACTGG AGATGTTTGA TGTAGGTAAA TGANCTGAGA
TTCATTAGGT GTGAAATAAT GAAGTGATA TATAGTCTG CATATACATG CCTGGGGAAG GTATAATATT CAGAGGCATA
CTATCACTCA ATTTGTATCT GCTGTGGGCC TCAGACAGTA CAGGGCAGT GTTTGCATTG

SEQ ID NO:461: (Length of Sequence = 317 Nucleotides)

GTCATTAAGA AGCCTTTATT GGGTTATATT CAATTTGACC TCCCACCAA TTAAGCGGA AAAACAAAA AAATAAGAAA
TCCAGTAAA AGAGCCCTC AAGATTTTAT AACTTACAA CTAAAGCTGC TAGTTAATAA GGAATGGCA GAATTTTTCAG
AGCTGTATAA TACAAAAATT CCTGTAATIT AAGCAGATGT TTTCTCACT GATGACAAAT CTTCACAC AATGTGAAGT
TATGCTACTT GGGATATTG TAGGCAAAAC CATTTTTTTT TTGTACAAA ACAAAAGCAA GGGACNTGG AAAAAA

SEQ ID NO:462: (Length of Sequence = 261 Nucleotides)

AAAAAGGCCA TAAATCTTN CCTCGTGA GCTTACCTTC TAATAAGGAG AGACAGAGGG TNAGAAACAA ACAACAAAA
ATATGTNAGT TAACACAGAG TGTTGGAGG TGTCAGTGC TATGGAGAA ACGTGGAGCA TGTCAAGNG AGAGCAGGCA
AGAGGGCAIT CTGGAAGGC CTAGGANGAT GGTGACATTT TACCTTCATA TCCACCAACC CCCAGCACAA AGCATTITCC
AGAGGNAGNC AGAGGAGGGC A

SEQ ID NO:463: (Length of Sequence = 387 Nucleotides)

ATACAAGTAC ATCCAGGAGC TATGAGAAA GAAGCAGTCT GATGTCATGC GCITTTCTCT GAGGGTCCGC TGCTGGCAGT
ACCGCCAGCT CTCGTCTCT CACAGGGCTC CCGCCCCAC CCGGCTGAT AAAGCGCGCC GACTGGGCTA CAAGGCCAAG
CAAGGTTACG TTATATATAG GATTCTGTIT CGCGTGGTG GCCGAAACG CCCAGTTCTT AAGGGTGCAA CTTACGGCAA
GCCTGTCCAT CATGGTGTTA ACCAGCTAAA GTTGTCTCGA AGCCTTCAGT CCGTTGCAGA GGAGCGAGCT GGACGNCAT
GTGGGGCTCT TGAGAGTCT GAATCTTAC TNGGGTTTG TGAAGATTTC ACATACAAAT TTTTGA

SEQ ID NO:464: (Length of Sequence = 397 Nucleotides)

GTTAGCCGTG GCGTGTGGC GTCCCTGAA CGTACCAGGT ATTGTGGCTC CATTTGGCTGA GGATGCTTCT CCAGCGAAGG
AGGCAGGGAG CCGGGGAAGT GGGTGGGGT CGGACACCG ACAGCAGCTG CCAGACCAGC CATGCTGCC TCAGCTCCCT
CAGGCTGTCA CTCCTAATCA TCATGTCAT ATCTCTGGG CGTGTCTAGT ACCATCAACG ACGTGTCCCC CAAGCTGCAG
AGGACGCAA TCCAGCTCT CAAGAGGCTC TGTGGCCCT CTCACATGG GCTTNAAGGT CAAGGGTTGG GGGCAGGTC
GGACCGNCCT TCCTGNTCT TINGAAGAAG ATCTTCCAAN GTNCCGGCT TCAGCTTCTT CCGGGCTCT TTTGGCA

SEQ ID NO:465: (Length of Sequence = 320 Nucleotides)

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GACGACATTT ATTCCITTTT CAAATGTTAC AGTAAACCA GGTGGAAGAG AATGGTITTA GCAGTTAGAA AAAAAAAAAA
AGTACAAATC TGGGGTTTGG CCATTAAAAG TTATTTACAA CAGTGGGAGA AAAAAAGNCA AGAAGTTGTT TCACATTACA
GACCTCCCCC CACCCCAAAG CTAATACTT GCTTACCAAG TCAAAAAGA GACACAGTTG ATTCACAGGC TGGAGGTTTG
AACTTGAGTA AGACATTTAT AAAAACCTAG ACGGGGCAGT GTCCTNCCA GCCCAGGTGC CACTTAGGCC AGCACAAGGG

SEQ ID NO:466: (Length of Sequence = 352 Nucleotides)

CATTGTATTT CCCTTCTTCA AATTAATTAC CTACCAAAAA ATGGAAAAGA ATTTTACATG CACTTTAAAA TAGTAAAATG
GAAAGTGAAT TTTTAAATA TATGCATTAA AAGTTTACTT TAAITTCAG TGGGACTTCC TTTATGAAAT TTTCATAAC
CTCTTCTGG AGTATTACAA GATCTCCAAC ATCTCATAAA CTAATTGTGA TATTAGTGA ACCATAAGCA AATGTATATT
TTTAGTGGAA ATAGATTATG AATGAAAGCC AAGCACCTTA CTTTAAAGCC AAAATATGAG ATTTTCCATT AAAAACCAAT
GGTCATAAT AGGGAGGGG GTTTTAAAT TT

SEQ ID NO:467: (Length of Sequence = 352 Nucleotides)

TGAAAGGCAA AAAATAAATA AATAAAATA AATACCAATT GCAGAGACAG AGAAACCATC AGAAGAAGAC AAGCAAGGTT
GTTTGAATTA CTACGCTAG AATTAGAAT AACTACTATG ATTAACAAG AAAAGGCTTT AATGGATAAA ATAGATAGCT
CCTAATAACA GATAGTAATA ACATATGGGT AATGTGAGCA GAGAGATGGA AATCTTAGAN CAACAACAGC AACACGNC
AAGCGTTAGG GATCAAAAAC ACTGTAACAA AAATTAAGAN TCCCTTTTAT GGGCTTNTTA ATAGNCTNGG ATACAGGTAA
GTAAAGAATC CCTGTGCTTT AAGGAGCCAT CA

SEQ ID NO:468: (Length of Sequence = 336 Nucleotides)

TGACATCTGC ATCTTACATT ATTAAATGCA AAGGAATATC AAGAGCTCCT CTGCTAGAAC CATTTTTATT CATAAAGTCA
CATTATCATT GTAGAAGTCT TGTAAAAATG CTACCTGAAA TGAATTATGT CCGTCTTCCC ATCTGGCTTA CAAAATCTT
GAGGAAGCAT CTGCCCTGTA GCTCTTTATC TTCTATTTT CTACTACAGG GACAATGAT ATGGAAAGAT AAATGTGTGT
AGGTGTATAA ATTCTCAATA AATATTTGCT GAATTAGATT GTACAGTTGT TATCTTTTAA GNTTAACCTA TCCTGAGGTA
CATTTTATTA TTGGGC

SEQ ID NO:469: (Length of Sequence = 156 Nucleotides)

GACGATGTA GAATTCGTG TGGAGACGTT CCCCCCTCA ATTCAATGGG AAGGNTCTTT TCTGGCATGA NCTCTCCGAT
GTCTAATGAG CTCTGAGCAC CATCCATAAG CTTTNNCACA TTCITTANAT ATAAAAGGTT TCTCTCCACT GTGAAT

SEQ ID NO:470: (Length of Sequence = 350 Nucleotides)

TTCTCATGTC TGAATTCAC ACGCACAAGT CTGAAATGTG AAGGTTTCTT AATGTTGGTT TTATGGTTTG TGTAAAGATT
TTGGGAAATG AAGGGCTCTT CATTAGGATA AAATGGTCTT AACITCCAG AGAAGAATTT CCTGACAACG TGGCTGAAGT
TAGATACAAA TGTTAATATA GAAGANTGCT TTTATTTGAA TTTCTAGCAA ATGGTTTCA ACTACTTTAA ATATGACCNA
CTTGAAAGTA TTATTCCTNT TTTAAACTA CTTTNTATGT ATAGATCTAA GGCTGCTTG AAGCTAGTAG GTTAAAGTGT
TTGAGAAATA AAGGCAAGAT TTTTNCNTTA

SEQ ID NO:471: (Length of Sequence = 270 Nucleotides)

GGAGCAGGGC TGGGAGTCAG TGGGAGATTG GGAGTCCAAG TCTGGACATG TTACATATGC TATGTCTATT ACAGATCTGA
GTATAAATGT GAAGTGGAGT TTTACCACGT GATTCTGAAG TTCAGAGAAG AGGTACAGGT TAGAGATAAA GATTINGGAG
TCACAAATAT AAAGATGTAT GACTTNTATG GATTACCAAG GAAGTGGAGA TTAATAGCAA AAAGAAAAGT TTCAAGCTTC
AAGCCCCGAA GCATTCTAAT GTTTACAGCT

SEQ ID NO:473: (Length of Sequence = 345 Nucleotides)

TTTATTGTAG TTCAAATACA TAAACTGAAC ATTCAAACAT CTTAAAATTA AACTTTAGCA ACAAAGTTTA ACATTCAAAC
AGGAGTATAG TTTACAAGAA ACACCCAGAA AGGTAATTIG TTGTCTAATC CAGAATATTG ATAAAGATCA CTTAATGGTG
AATAAAATAT GTTTAACCAG TGGTTCATT CTGGCCAACA TGTTAGTTAT GACCGTGGTT CCATACCTGA GAAGAAATTA
CTACATAAAT CTCTCTTAG GCTAAACAAC ANGACTCGGT CTATAATTCA GAGGGGNTAA TCAAAGCACG TAAGGGTACC
AAAATAAAAC TAATCTGATC TTTAG

SEQ ID NO:474: (Length of Sequence = 433 Nucleotides)

CAGAATTAGA GCTGTACCCC AAGGGGGAAT TCTGTCTAG GAGACAGTGA GTNCTAAGTA CACTCTGGAC AAGCACCAGA
CACAGAAGCT GCCTCAGTTT GTGCTCCCC TGCAAAGCAG AGCCTGAGAC AAGGATTGG GTACAAGGAG TTTCACTCAA
TATTATATTT CCAAGATGCA CCCATGCTTT ATATGGCTAT AGTGCATCCA TTTTACTGCT TTATACTTTC CATTAGGTGA
CTATATTAGT ATATATTTAT AATTCTAGS TCTTTTGT CTCTTATTG TTAATAATTA TAAACTCCAA GCCCATTGTG
GTAGATTGCT ATTCTCAGA GATAITTTCT GCTCCTTCT GGGGGACAAT AATACINTTC TCCCATCAAT GGCAGATGIN
GGGCTTGINA CATTTTCTGG TCAATGGAAT GAG

SEQ ID NO:475: (Length of Sequence = 427 Nucleotides)

GATATGGTTT GTGTGCCAC CCAAATCTCA TCTAGAAGTG TAGTTTCCAT AATCCCCACG TCGTGGANGG GACCTGGTGG
GAGGTAATCG AACCATGGGG GTGGTTACCT CCATGCTGTC CTTATGATGG TGAGTTCTCA TGAGATCTGA TGGTTTTATA
AGGGACTTTT CCCCCCTTIG CTCTGCACIT TTCCATGCTG CCACCACGTG AAGAAGGATG TGTTTGCTTC TCCTTCCACC
ATGATTTAAG TTTCTNAGG CCTCTCCAGC CATGCTGAAC TGTGAGTCAA TTAAACCTCT TTCTTTTAA AATTACCCAG
TCCCAGGAT GTCTTCATTA GCAACCTCAG AGCAGATTAG NCACAATTCC ACAACTTGA GAATNGGTGT TCAAGTTTCA
CTCTGGCCTT NAACAACCCA AAATTTA

SEQ ID NO:476: (Length of Sequence = 351 Nucleotides)

CGCCGCTAGG GCGGCNGGG GTCCGGACGC CGGCTAGGG GCGCGTCATG TGGCCGCTCA CGGTCCCGCC GNCGCTGCTG
CTGCTGCTGT GCTCAGGCTT GGCCGGACAG ACTCTCTTCC AGAACCAGAG AGAGGGCTGG CAGCTGTACA CCTCAGCCCA
GGCCCTNAC GGGAAATGCA TCTNACGGC CGTNATCCCA GCGCAGAGTA CCTGCTCTCG AGATGGCAGG AGTCGGGAGC
TGCGGCAACT NATGGAGAAG GTNCAGAACG TCTCCAGTTC CATGGAGGTC CTTNAGTNC GGAOGTATCG CGACCTCCAG
TATGTACGCG GCATGGAGAC CCTCATTCGG A

SEQ ID NO:477: (Length of Sequence = 333 Nucleotides)

GGTCTCACTC CGTCATCCAA GCTGGAGTGC AGTGGTGCAA TCCTCAACTC ACTGCAACCT CCGCTCCCGG TTTGAGTGAT
TCTCATGCCT CAGCCTCCCG AGTAGCTGGG ATTACAGGCA TGAGCCACTG TGCCAGCTG GGATATAGAA TCTAAGAGTT
GATTGTGGAA AACACGTGAA TCTATTGCGC GCATTNTCA TTTAGCAAGA TGGCAGCAGT CCAGCTGTTT TTTGCAGCTG
GAGATGAACT TTTAAAAATC CCTTCACAC TTAATGTACT GACCGAGACA GAAGTACCTG AAAACAGCT NTGCATGGCA
GGCCCGGCAA TAG

SEQ ID NO:478: (Length of Sequence = 458 Nucleotides)

ACATGTTAAA ATAAGGTAAT ATGAAATAAT CTAAAAAAA AAAAAGTGCA GAACCAAGAC CTCTGTGATA ATCCTATTTA
AAAAAATAGC TACAATTTTA GTAGAATGT TTCCCTTAG AGAAAGCATT TTCTGCATAA CTTTTAATGT ACTGACCTTT
TCCAAGCTTG CTGAGCTGGC CTTGTCTCA ACTCACTTGG GACACCTTC CCTGTGCTC ACCAGGGCCC ACCCAAGTC
CCAGTTTCTC TAGGGGTCT CTGGGACCC CTTGAATCCC TTINCTGATT TGTGCTGCCT TTAGCAGNCG GAATGGGCTG

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GCAGACCACC CTACATNCTC CTGTGTGTGG GGACACTGTC AGGNTGTCTT CCTGTCATTA GNCCTGTGCTG AGTTTCTTAC
CATGTGNCCA GGATGNGTTC CATAGTCGGG GCATNAAGGA CTTAGGATGG GCCCAGTC

SEQ ID NO:479: (Length of Sequence = 360 Nucleotides)

GCATCGTATC TNCITTTAAGA AAAACACTTC TTCAAAATCC TACACTATGA AAAACTGTCT TCAGGAATTG TTTATTGGT
CCGTGATCT AGTGAGGCTG AGTTCTTAAA TCTTTCACCC CCAAGTTAAA AATTGGAGCA ACAAACAAA ACTCCAGCAA
GGCATAAATA AGATATTAAA GTGCATATAT ACAATACCAG AAAAGTTTAG ATTGGGAACA GCAAAAATTT CTAGTGCAAA
AACTGCTTTT GCCAGCAAAG CTCCCTCTCT GGAATCAAAG GGCTACAGTA AAAGTTAAA TTGGAACAGG NTAAGCAAT
GTCTGTCTT AGTCACAAGT NAATATATGT GCATGCACCC

SEQ ID NO:480: (Length of Sequence = 322 Nucleotides)

GAAATTAAGT CTAAGCAAAA AGAAAAATAA AATGACGAGT TACTGGGTGC AGCACACCAA CATGGCACAT GTATACATAT
GTAACAAACC TGCCCATCAT GCACATGTAC CCTAAACTT AAAGTATAAT AAAAAAAAAA AAANTGAAAA GCTTCAGCCA
GAGGTACAA TGCTCACAAC TCATTGACCA AACTATCTC ATACCCGINT TAGAGCANGG NGCAGGAAAG CAAAACCAAT
CTCTTACTG TTCACTGNA TACAAGTTCC ATGAGGGGAT GCAATTININ TCTTGGNCAC TCCTGTGTCC TCAGGGTATA
GG

SEQ ID NO:481: (Length of Sequence = 369 Nucleotides)

CCTGGGCAA GCATGTATCT GGTAGCCTTG CTCAGAAGC CTGTCTCTCA CAGTCAAGCC TCAGAAGCCA ACTCCTTTGA
AACTTCCAA CAGCAGGCT TTGGCCAAGC CCTGTGNTC ACAATTCGC AACACAACA TCAGATGGCA CCAGGGACTG
GCAGTCCAC TGCCGTCAAC TCCTGTCTC CTCAGACCT GTCATCCGTC CTGGGTCAG GATTGGAGA GCTTGACCA
CCAAAATGG CAAACATCAC CAGTCCAG ATTTGGACC AGTTGAAAGC TCCAGTTTG GNCAGTTTT ANCACCANCC
CAAGTACACA GCAGATAGG TACAAGTCAA CCTACAAC ACTACTCT

SEQ ID NO:482: (Length of Sequence = 255 Nucleotides)

GAGAGAATCT CGCTCTGTG CCCAGGCTGG AGTGAGTGG CGCAATCCG GCTCACTGCA ACCTCCGCT CCCGGTTCA
AGTGATCTN CTGCTCGGC CTCCCACTA GTTGGGATTA CGGGTCACA CCACCGCACC CGGCTGATTT TTTGATTTT
TGGTAGAGAT GGAGTTTAC CATGGCTGG CTGGTCTGA ACTCTGATC TCAGGTGATC TGCCCGCTC AGGCTACAG
AGTCTGGG TTACA

SEQ ID NO:483: (Length of Sequence = 353 Nucleotides)

CTGGATAATC AGGGCATGT GCTTTAACAG GATGTAAAGG GGAAGCTCAT GATTAAACAT GGGAAATATG CAGCAAATTG
CAAGACCTGA GCTTAACGC ATAATTAGAA CATAATTTIN CACTTCTTCC AGAGCATCAG CCAAGCAAAG GACTGAGAAA
TCTGCAACCC AATGTCTTA AAAAGAACT TAGGCTTCAC ATTTGTGACA TAATTTCTTT TAAATGAAT ATAAATTTT
ATTTTINATA TTTGTAGAGC ATAGGATGAT TGAAATCCAG TTGTGTGTTT ATCTGACCTC CATATCTAAT ATGGCTAGT
CGTTACTAC TCTACAGAAC GCGCAATAAG TCA

SEQ ID NO:484: (Length of Sequence = 371 Nucleotides)

GACCCAGAAA ATGGAGCTAG CTACATTTCT CACACTTACT GTCATAATTA CATGTTTATA TTCTATTAGT TGTAATTATT
TTTCACTAT CCTCTCATTA GAATGTATA CCTATAGAGC AGATACCAAT CCAGTTTIAA TTTTGTGCC GACTCCTAG
TAAGTACGTG ACCTATTACA GGGAACTTAA AACAAACAAA AAGTCTGCTG AGTCTGGGAT GTTTTAAGGA TCGAAGGAAC
ATGTTGGTCC AATTTGCTT CACAGAGGT TACCTCTGCT TTTCTACCGA ATGTGGAAT GCTCCCATGT GGATTTTNA
GGAATCCAG TCTACCTCA GGGGAAGNC CACATGTAAT GCCAGAGTC T

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SEQ ID NO:485: (Length of Sequence = 376 Nucleotides)

GGTCCGACGC TGTGTCAAGC TCTGCACCGG CCATGAGTAT GCAGCCAAGA TCATCAACAC CAAGAAGCTG TCAGCCAGAG
 ATCACCAGAA GCTGGAGAGA GAGGCTCGGN TCTGCCGCCT TCTGAAGCAT TCCAACATCG TCGTCTCCA CGACAGCATC
 TCCGAGGAGG GCTTCCACTA CCTGGTCCTC GATCTGGTCA CTGGTGGGA GCTCTTTGAA GACATTGTGG CGAGAGAGTA
 CTACAGCGAG GCTGATGCCA GTCACGTAT CCAGCAGATC CTGGGAGGCC GTTCTCCATT GTAACCAAAT GGGGGTCGT
 CACAGAGACC TCAAGCCGGA GAACCTGCTT CTNGCCAGCA AAGINCAAAG GGGCTT

SEQ ID NO:486: (Length of Sequence = 396 Nucleotides)

TTGATATTTG TGTCTAATTC CAGCTACTTT GAAAGCTAAG GCAAGGGGAT TACTGTATTA ATAAATTCTC ATGCTGTTAA
 TAAAGACATA ACCAAGACTG GATAATTCAT AATGAAAAG GTTAATGGCC TCACAGTTTC ACATGGCTGG GGAGGTCTCA
 CAATTATTGG AGCAAACAAG AGACTTTGTT CAGGGGAATC TCCACTTATA AAACCATCAG ATCACGTGAG ACTTTTTTGC
 TATCATGAGA ACAGCATGGG AAAATCCAC CCCCATGATT CAATTACCTC CCACAGGGTC CCTCCAGGG ACATGTGGAG
 ATTATTACAA TTCAAGATGA GATTTGGTTG GGGACAGAGA GGCCAAACCA TATCAATTAC TTAAGGCTAG GGGTTT

SEQ ID NO:487: (Length of Sequence = 375 Nucleotides)

TGATTAAAT AATAGAGTIT AGTAATATGG ATGAATATAA GATAAATATT TAAAAAGCAG TTGTATTTTT ATAGCCCAGC
 AAGATAAAGT TCAATATGT ATTTTTTATA AAGATGGATT TACAATAACA TCAAAAATTA AAATGCACCT TGAAATAATA
 AAGACATGTA AACCCITTITA TGANGACAGA TTTTITAANG CATTTTAAA AATNCITTTT CATTGACAAA TAATTATCCN
 TATTINTGGG GTACACAGTA ATGTTTCAAT ACATATAATA AATAGTGATC AGATCAGAAT AATCAGCTTA TCCATCATTT
 CAAACACTTA TCATTTCTNT GTGTTAGGGG CCATTCACCA TCCGCTTCT GGCTA

SEQ ID NO:488: (Length of Sequence = 323 Nucleotides)

CACCTGATTA ATGATTGGNT TAACAGTATA TAAACAAGGG CCATGGTTTT TTTTACTAAA GTAGGTCTGA AAGATCAATA
 TAAATACTAA TGGGGGCAGG GAGGAGTGT TTATACCCCA AACTCCAATA TTCCAGCTCT GTGTCCTGTC CTATTATTAT
 AATTTGTAAA AATCTTAACG ACGCAGTGAT TCGAGTTTTT GTAACCTCAA TGATGTGTTA GAGGACAATG CATCTTGGTT
 TGAAGAATTT GCTGTATCCG AAGGCCGGAA AAGTACTCGA CCACGATGAT TAAATACATA AAAGGATGGG TGATTCCTTA
 CCG

SEQ ID NO:489: (Length of Sequence = 326 Nucleotides)

TTACCTTTTA CTCTGATCAT AATCTCCAC CTGTCTAAGA GGTTATTTAT TCCTTATTTA GAGGGCCTCT ATTGCCATGT
 GCCTGGAATT ATTATATGCT CATCACTTTA TGAAGAATAA AATTGTCTT TCCTGCTTTA AAGTTACATT CGTCTTCCG
 CTCAAATCCT GATCTGGTCC ATTAAAGAGT GTTCGCAGAC AAAGTTTCTG AAAGATTAGA GAAGAATCCC CCCCAGATT
 GCCCCAACAC TGAACACAG ACAACACTA TTTTATTTAA ATAAGGNGAC AGCTTTCTAA AAGTATACAT TCCTCTAATA
 AAAATA

SEQ ID NO:490: (Length of Sequence = 186 Nucleotides)

CTCAGATCCA TCAAGATGTG AAACTCGCAA GTTGGTGCA GAGAAGGTAC ATGGGTTTCC TTCTTTTCTC ATCTGTATTC
 CCTTTTCTGC AATTATTTTC TTGCCACAT ACTAGCCAGC AAACCAGGCA CCTTGGCAG AGCCATTAAAG CTACAAAAAT
 ACTTAATATT TTAATTGAA CTCGTC

SEQ ID NO:491: (Length of Sequence = 347 Nucleotides)

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CCTGTACTTG TCGTCCCTCA TTCACFTAAT TATGATACTT GCCTGGCATC TTGCAGGTTT CTGATGCTGT TACCCAGTA
 TAGACCAAGT GCAGACAGAA TTTCATTTCCT GCTTTATTAA GGCACAGTCT TGAGAAACCC ATTGGCTTCA CACACAATTA
 ATTAATTINT GGCAACAAGC TACTATATTG GCTTGCATGT CACTTTCACC TCTCTGGGCA TTAGTTTINCT CTAATATTTA
 TAAAAGAAGG ACATGACTTT CTAAGGTTCC TTGCAGTAAT TATGCAGTTC TATTCTAATA GATGCTTAAG CATAAAACCC
 ATTTTAATAC TGTCCCAAGG ATCCAGG

SEQ ID NO:492: (Length of Sequence = 320 Nucleotides)

GAATTTGGNT CCAAAGTTTG GACATTGCAT TTCATTATA CGTCCCTTAA GTTTATTTTA ATCTGTATTT TCCTCCTCCC
 TTTTGTGTTT TTTGTAACTT CTTTTCCTG TTGTTTTCGG TTAAGAAAC CATGTTTTTT TCGTCTGTG AGTGGCTCCT
 GTTCAGAAAT TTAATGATTT CATCTGCTGG TATCATTTAG CATGTTGCTC TGTCCGCCGT AGTACTTTAA ACTAGACGTT
 AGATCTAGAG ATGTGATCTA CTTCCGTAGG ACTTTGTCAA GAATACTTGT AAGTAGGTAT TTAGGTACCA GGGGNCACAT

SEQ ID NO:493: (Length of Sequence = 339 Nucleotides)

TGCCAAGTTT GCTGGAACAT TATCAGATGG CTTAGGGAAG ACGATGGACA ATCGGCATCA GTCAGAGCGG GAGTACATCA
 GGTACCATGC AGCCACAAGT GGTGAACACC TTGTAGCCGG CATCCATGGC CTGGCTCATG GTATCATTGG TGGACTGACC
 AGTGTTATAA CTTGACAGT GGAAGGTGTG AAAACAGAAG GGGGTGTGAG CGGTTTCATA TCTGGCCTTG GAAAAGGGCT
 TGTGTGCACT GTAACCAAGC CANTGGCAGG CGCCCTGGAT TTGTCATCAG AAACAGNCCA GGCCTGTAGA GACACAGNCA
 CACTTCAGCG GCCCCAGGN

SEQ ID NO:494: (Length of Sequence = 366 Nucleotides)

GTAGGCCCTT GGAAAGTAAT TAGGATTAGA TAAATCATC AGGGTGGGGC CACCATAATG GGGCTGGTGG CTTTATAAGA
 GGAAGAGAGA CTTGAGCTGA CACGCATGTN CTTCNCCCTCT TGCTATGTGG TGCCCTCAGC CATGTTAGGG CACAGCAAGA
 AGGCCCTCAC CAGATATTTG GGTGGTCTTN GACCTCCAC CTTCCAGAAC TGTAAGAAAT AGATTTTTTT ATATATTACC
 CAGTCTATGA TATTCTGTTA CGGNAACAGN AAACAGACTA AGACAAGCTT CTTAAACAAA TTGANAAATAG AGTTTTAAGA
 TNCAGACTTT CATTCCTTT AACAGGGGCC AAGAATATCT ATTCA

SEQ ID NO:495: (Length of Sequence = 384 Nucleotides)

CGAGGAAGGC AAGAAGCGCA GGGGGTGGCC CGCTGGCGT CGGTGGCCTC CGCTCCTGCT CGCAGCCCTT GTGGTCAGAG
 CTGGATACAA GATTCAAGAC CCTTCINTG CTTGTNACCC GCTCCAGGTT GGAGCCACAG ACACCCACCG CCACCCCGGC
 TGGGTCTGCN TCCTTTCCG TGCTTTTCCC TCCAGAATGC GGCTCAGAC CTAGAAGCTC AACCCCCCTA TGAGGGCCAC
 GTCTGGGGT AGCTCCTGAC CTNCGACCTT ATGTCCAAAT TTCACACCA TGGTTTTTCA TTTGACCCG CCCCCTCTCG
 CTCATAATGA CAACNAGCTT CCTTTGAGAG GGATCAGAGN CCAATTGCAC AAGGAGGAGC CGCT

SEQ ID NO:496: (Length of Sequence = 342 Nucleotides)

TACCTTAGTA AATGCAATTT TCGAACAGGC CCCCATCTTC AACTGGTATA GCATCTTCCA CACCTGTAG CCTTCAAACA
 TCACCTGTTA AAATACTGCC CATTCATGT CATGTATATC TGCCCATTTA TGGAGCAGT GAGTGGAAAC CTGACAGTGA
 CGGACTTTAA GCTGTACTTC AAAAATGTGG AGAGGGACCC GCATTTTATC CTTGATGTTT CCTTGGAGT GATCAGCAGA
 GTGGAGAAGA TTGTGNCAC AGAGCCATGG AGACAATTCC TGTGGTATAG AGATAGTGTG CAAGGATATG AGGAACCTGC
 GGCCTGCITA TAAACAGGA AG

SEQ ID NO:497: (Length of Sequence = 273 Nucleotides)

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GATTATTAA GTATCCCGA AAATATAAAC ACAACCAGT AAAAAACAAA ACCGTAAAAC GTCAGGCCTG GAGCTGCAAT
AAGACAGAGA CAGGAGCAGC TCACACGTGG CCTAGGTGGG GAGGACGAGG CCATAAATAC TGCAGGAGGG CGGCAAGGGA
GCCCTAGGGC GAGGGGAAAG CAGGGTGTGG GCAGCGAGAT GGNCCNGGG GTTTAGACAC TGCTGGCTTC GGNCCCGGCC
GGCACCANGA CTCTCACTTC CAGCTGCGAG CAG

SEQ ID NO:498: (Length of Sequence = 319 Nucleotides)

ATTCCCAAAA ATAGAGTCTG GACCTCTTAC CGCTACAAAT TCCAGGTCTT CAGGTACAGC CTGAGAGTAT GCAGATATAA
TACACCACAG ATGATTCTCT CCTTTTITG TTTTITTTTT TTTTITTTTT TTTTGAGACA GAATCTCATT CTGTCACCCA
GGTGGAGTG CAGTGGGCTG ATCTCGGCTC ANTACTTCTC CCGCTCCNG GNTTCAAGCA ATTCTCTGCT CTNAGCCTCC
CGAGTAGCTG GGNCTACAGG NGCACACCAC CATGCCATC CAATTTTTGG ATTTTAAGTA TAGTTGGGGT TTCACCAIT

SEQ ID NO:499: (Length of Sequence = 408 Nucleotides)

GAGAAATACC TAATGTGAAT GACGAGTGA TGGGTGCAGC ACACCAACAT GGCACATGTA TACCTATGTA ACAAACTGCG
ACATGTGAC ATGTACTCTA GAACTTAAAG TATAATAATA AAAAAAGAGA ACCTTTAAAA AAAAATAGAC TGCCAGATAG
ACTAATAAAT AAAAAAGAGA GGTTGAAATA ATCATAAATG ACTAAGGGGA TGTACCCCA CAGAACTACA AAAAAACAAC
AAAAAACCT CAGAGACTAC TAAACACTC CTATGCACAC AAAGTAGAAA ACCTAGAAGA AATGGGTAAA TTTCTGGAAA
CATACANCCA CCGAAGATTG AACCAGGAG AGATTAAAGC CCTGAACAGA CTAATAATGG NGTTTCAAAA ATTGAATCAG
TAATAAAA

SEQ ID NO:500: (Length of Sequence = 474 Nucleotides)

TTTATTTTTT TTCACGTGTA CTGTTTTTNA TCITTGATTG ATAAAAATGA AAATGCCAAA ATGAGGGTTA GCTTAATTTA
AAGTATAAGC GTAGTTAGCA GCTTTTINCTA ATCCTCTCTG TCCATTTTAA AAATAATCCT CATAGGAGTA TAAACAGAGG
AAGGAGAAAT GGAGGATGGG CTTAAGAGAA AGAGTATTTT ACAATGTCT GCATAGCAAA TTCAATTCAT CTACCTAGTA
GCTCCTTCCG TGTTAACCTA CAGGTGTCTT CCCCTCCAAA AAAAAGCATC TTTTAGGAAG AAACCACCTT AACACTACCT
TTAGANGATT GAACCTCCAG GGATAGGTTG TTTGAGAGAA TCACCAAAAG CCATTTTITAA ATGAATTTTT AAATTACGGC
TTTCTCATT CTATATAATAG TGTAGCAGCC ACCTTCCCTC TACTATGGAA CTTTTAACCA ATAATCCAAG TCCT

SEQ ID NO:501: (Length of Sequence = 378 Nucleotides)

GTGGTGGCGG GCGCCTGACC TCGTGATCCG CCCGCTCAG CCTCCCAAAG TGTTGGGATT ACAGGCGTGA GCACCGCACC
CGGCCCTTGT GTACATTTTT ATAAGAGAAT TTTTTTAGCT AGGAGTTCAG AATTTTTTAA GTACCATTTG AATGATCTTA
ATTTTNCCTT CATGACAACA CATCCAAAA TGAATCATGC TTATGTACTA AGAGGGAAAA TGTATTTAAG NTAAGGGTGA
GAGACTTAAG TTATAGGTGA CCTTAGAGAC CTAAGGTGAG AGACTTGACA CATGGAAGGA GTAACATTAG GGTCTACCTC
TACCTCAATT TAGTTAGCGA TTTACTACAA TTTAGAGCT AACAAAAGTA AAAATAAA

SEQ ID NO:502: (Length of Sequence = 448 Nucleotides)

TTTTGGAGAT GGAGTCTTGC TCTGTGCCC AGGCTGGAGT TCAATGGCAC AAAGTGGCT CACTGCAACC TCCGCTCCC
AGGTTCAAGC AATTTTCTG CCTCAGCCTC CCGAGTAGCT GGAATTACAG GCACACGCCA CCATGCCAG CTAATTTTTG
TATTTTAGTA GAGACGGGGG TTTCACCATG TTGGCCAGGC TGGTCTCAA CTCTGAACT CAGGTGATCC ACTCCCTCGG
CCTCCCAAAG GGTGGGATT GCAGGCGTGA GCACACGNC CAGCCATGAT CCTTAAACTT GTTTAAGAG GTATAATAAC
TGGAAATCAT GATGCTCTT AAGGAATACC AATTGGATGT ATTATGATG TATTTAATTC CATCCATATG NAGTAGAAAC
AGTTTTTCAAT AGCAGAAGGC AATTATATTA TAGCTACACA ATATAAAG

191

SEQ ID NO:503: (Length of Sequence = 446 Nucleotides)

CTACAGTACC CATCTCCATT TTCAGAGAGC TCCGATGGAA ATTCTATGA ACTAATTCTC CTGCACATAC TTTGGTACAA
GTGGGCTACT GGAGCCACCT TCCTTCGTTT AATCAAACAG CATTTATTCA GCTTATTTAA TGAACACTAT CCAAGATACT
TGGGGGACAG AAATGAAAAG ATGGGGAGAC CTGTCAAACA TATGGTACTA TGTCTATGCA AAATAACATT GGAATGTAGA
TTCACAGTGG AAGGCAGGGC AGGCATGGAA GAATTCTGAG AATGAGTGTG ACAGCTCCTA CCTGTAAACAG CTCITCAAGC
TCCTGCTGGA AGCGGTCACT CAGCAAATCT ACTAGCTGGC TGGGGGCAAA AGTCGCGCCG GCTGGAGGAA AGTGAATTCC
GGGATTTACA GAGCAGGTAG AGGCATGCG GCCCAGCCCT CAAGCA

SEQ ID NO:504: (Length of Sequence = 248 Nucleotides)

TTGCTCTTCT TTCTTACCAT GGGAACTGCC TTCTCAGGGG ATTTTNAGGT CTCGGTGTIT CTGTGTTTCT NAATAGGCAG
TTTCTCGCTG TGGGCTAAGG GCTTATCCAG GNCAATATCC AGAGCCCTGT AGGGGTCTGT GGGGTCTTTG TCATCTCTGT
CGCTGGGCAG AGCATTCTCA GGCATCTCCT CTGTNACGAT GTCCACTGC TGGGCAAGGG CGATGTCTC GTGCTCTCC
GTGGGCAA

SEQ ID NO:505: (Length of Sequence = 367 Nucleotides)

GCTATGTTGC CCAGGCTGTT CTCAAACCTT TGAGCTCAAG CAGTCTCTC ACCTGTCTCC CAAAGTCTG GGATTACAGG
CATGAGCGAC TGTCCTGGGC TTACTAAATT TTAAGAATTT TGTGTTGAAC CATCTGCTGA TCATGGAGCA GCAGAGAAAT
TTATTGACAG ATTTTCTAGG GTCATCACTG ATGACAATCT GNTGCCAGAA CAAGCCTGTA ATGCTGATGA AACATCACTG
TTCTGGCAIT ATTGCTCCAG AAAGATACTG ACTACAGCTG ATGCAAGGC CCCTGTAGGC AGTAAGGATG CCAAGGACAG
AATAACTGTT CTGGAATGTG CTAATAATGC AGCAGGCAIT CAATAAG

SEQ ID NO:506: (Length of Sequence = 419 Nucleotides)

ACACCTGGTG ACTTTAGCTA TGCTATCAA AAGCCTGAGG AAACAACCAG GTCCCCAGAT GAAGAAGATT ATGACTATGA
GTCTTATGAG AAGACCACCC GGACCTCAGA TGTGGGTGGC TATTACTATG AGAAGATAGA GAGAACCACA AAATCTCCAA
GTGACAGTGG CTACTCTTAT GAGACCATTG GGAAACTTAC CAAGACCCCT GAAGATGGTG ACTATTCCTA TGAATTTATT
GAGAAGACCA CACGGACCCC TGAAGAGGGT GGGTACTCAT ATGACATAAG TGAAAAGACC ACCAGCCCCC CCGAAGTGAG
TGGTTACAGC TATGAAAAGA CTGAGAGGTC TAGAAGGCTT CTGGGATGAC ATCAGCAATG GCTATGGATG GACTCTAAGG
ATGGTTGGCC ACACAACCT

SEQ ID NO:507: (Length of Sequence = 417 Nucleotides)

GAAAACTATT TTAATTAAAA AATATTCTAT TACTTCAATG TCATGTCTGT TGAACGAGGA ACTCAACATG CTTATTINCC
TTTGGTTCCA AGAAAAACCC AAGTCTAACC AAATGTATGC CACAAGGAAC TGCCAACCTG GTTAAAGCTT GGTATTTTCC
TGGTTATCAC CCTATTTCTT GGTGTAGGAC CTGGGGTTTA ATAGAGACAT TTACATAAAA AAGGTATTTG GTTAAAAACA
GAAATATGCA TGCNCTTCTT TACCACCTTC CTGGGAAAGA ACTGCTTTT TTNCTTTCTT TCTGTGAATC TTGTTCAAGA
CATCCGTAG TTTAGATATA TGGGCTGCTT CTTTTTACC CTCAGCTTT TAGGTGACAC TTATAAAGGT GAGCATATCA
TTCTATAAAA TGAAGA

SEQ ID NO:508: (Length of Sequence = 308 Nucleotides)

CTGTTTAGAA AAAAAAGTGC AGTCACTGT CAGCACTCAT TGAATTTTGC ATAAACATGC TTTTGGAGC TGAAGCAAT
CTGACTGATT TTCAATGTGA AAATAAATA TAAANCTGT TTTTAGAGTT ATTTATTAAC AGAACTAACA TCAGAATTAT
TTGAATCACC AGAATAATCA ATTCGGAAA AATCAGATTC ATCAGATTAA TCTTTGGCCA ACAACTGTTT AAGAACAATG
TTAACATCTG CATGGCAATG CTACATTINC TAGGATTTGA CATTTTCAGC AATTGAGGAA TTACTATA

SEQ ID NO:509: (Length of Sequence = 370 Nucleotides)

TTTTTGAGAC GGAGTTTCAC TCTTGTGGCC CAGGCTGGAG TGCAATGGCA TGATCTGGC TCACCGCAAC CTCGCCCTCC
CGGGTTCAAG CGATTCTCCT GCTCAGCCT CCCAAGTAGC TGGGATTACA GGCACGGCC ACCACGCCCTG GCTGATTITN
TATTTTITAGT AGACACGGGT TTTCACCATG TTGGTCAGGC TGGTCTCAAA CTCCCGACCT CAAGTAGTCT GCCTGCCCTCA
ACCTCCCAAA GTGCTGGGAT TACAGGCGTG AGCACTTGGC CTGGGCGTG ACTGATTTTT TTTCATGTAG AATGTCAAC
ACGAGAGATC ACAAGTGGAG CACTTTGAAA GACCGTCGT TGTGTGCACG

SEQ ID NO:510: (Length of Sequence = 446 Nucleotides)

TCTTCTCTCT TACTTTCTTT CCTTCCCTCC TTTCATATGA GAGACTCTAT ATGAAAAGG AAGCTGAAGT GGCCTGCACA
CGATATAGAA AAGCCATATT ACTTTCTTAA GACTGGTAAT CCGCAATAC CTAATGCAGC ACATGGCTAG AGACTCCACA
TTTGCCCAAC TTCTCTGCTC ATCAITTGCC ACTGTTCTGT AAATTTCCCA GTCCCTCAC AGAAAGCACA TGGCACCATT
TAAAATGGCT GCTCACTCTC TAAGGGAGGT CTCACAGGCT GGTAGTAGC CCTGTCCAA TAGTGAAGTT CTCACAAAT
GGGAGACTT CTCCAGGAG GAGGGAGGC CTGGAGATGG GCATGCAGTG GGCAATGTCA GCTGCCCTCC AGGTCTCTGC
TTGCCCTTTT TCCGCCCTGG GTCAGTATAC AAGCTTTCGG GGGACA

SEQ ID NO:511: (Length of Sequence = 354 Nucleotides)

AATACCAAAC TGAACAAACC TGCTCTTTC TGGTTAAAC AAAAAAAAAA AAACAAAAC AAACAAACAA AAAAAATCAC
ACAGTTTAAT AAAGANGCAA CTCTTCTTT TTAGNGCAA GGAATACCA TCTAATTCCT ATCTATTGAG CCCCCAAAAG
CTCCCTTCAG AGTCTTTCTT CTCTTTATCA ACAGAAAAGT CTAGAATGAN TATTCACAGT TTTCTAAGAA AACCAGAAAG
CCTTTAAGCA GCATTAGCTG GNCATATTC TCTTCTAT AGTTACCATA GATGAGTACA GCTTTACACT AGGGGGCTGG
GAGTTCAGAC TCACAGCAGA GACTNCTGGG GTAG

SEQ ID NO:512: (Length of Sequence = 374 Nucleotides)

CATGTATATT ACAAAAAGT TCCTGTACCA AAGTCTTAT TAGACTTTAT TTTGTTTTT TTAATTTTTT AAATTTTTTT
TGTTTTTATT TTTATTTTT AAATTNCTC TCCTGTGGT GACTGTCTG TGATTGTCTC AGTTTCTGGA CCAACAAAC
ACACTAATAA TTTTAAATCT GAAACAGTGA TTGTCCCTTT NGGCTCATGT ATGTACAGGG TGATCAGAAG TGGTACCTGT
TAGCAAAAGT GTCACGATC TGACCTCTA CCGAACTGA TACCCAGAA CTACGGAATC TAAACAGACT ACACCCCTGA
ACTGCGTATT ACTGTCCACA ATGGGGATCT CCAAGACAA AAGAGGTATG GAAA

SEQ ID NO:513: (Length of Sequence = 463 Nucleotides)

ATCAGCAGAT TTNCTCTGG TGAATGTCTA ATCAGTGTA TTCCATAGG CTATACITAC CTTTTGGGG CTACTTGCCA
ATNATGTTTG GTCAGTATCC TTGCAACAA CAGAGTGACA GATTCTAAA ATGACTTTGC AGGCCAGTAC TAAGAAAGAC
ACCAAGGTC ATGGGCTTGC AATAAAAAG TCCATAACTT CCTGCCCTA CTTACCAAG TGAATCGAG TTCTCACAC
TTCTGCACAC AGCTCTTTCA GGATCTTCCC TTCCCTTCAA GGCTGTCTGA TGTTCAGTTT AATTTGATTG TATTTGTATA
AAGTGCTGAG TGTGTAGTCC TCAAAGAAAT TTACTTTCAG TCTAANGCCC CCTTGGGACA AGAAAGTGGC AACCAGGCAA
ATGATTGATT ACTTATTTGT TTGAGTATCA CTTTGTGATT GTCCAGGGC TGTATTACAC ATA

SEQ ID NO:514: (Length of Sequence = 396 Nucleotides)

CCAAACCAGA AAACGTTTCC TGGCTCTCTA CTAACAGTAA AATGTGCTGA GCCCAAATTT TCTGCTCTAA CATGGGTCCC
ACGGACCTAT CAGTCTGCTC TGGGTGCTG ACCTGCTGGG TCCTGAGCAG GGTCTTTCCC TAAGCATCAC TGTGGGTTTG
GAGACAGCTG TAATGTGTGC AGCTGTGAGC AGAAAGTACA ATGCCACTGG GCTACATATG TCCATATCAT CCACCACCAT

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TTCCCACTGT AAAACCAAAG GCTGCAACTG TGAACAAATG TGGACTTCCT CAAAGGACAA ATGAGGAGAC TGAAGGCTAC
ATTTCCTCCT TTGAGAACCC ATTAGAGAGT GTCTACAGTT ATACAACAGG TTCTGCAAG ACCCTGTGGG TAACTT

SEQ ID NO:515: (Length of Sequence = 416 Nucleotides)

ACAAAACAAA AAGTAGTAGC ATCTCTGTGA GAGGTACACA GTTAGAAAA TGATTCCACA CACGAGTAAA GAGATTTACC
AGGAAGAGTC TTGTTTCTA AAAGTTGATA CAACTAGTAG AAAAATACTT GTCAGTGGTA AATAGAGCAG AAGTAGAAAA
AGCAGTTAAT CTATTAGATC AGATCAGAGT GTAAGGCAGG TATATCAGGC CAAAGGTGAT AAGACAGAGC AGAAATAAAG
TATTGTTAAT TCATGCATTT NCTGACTCAT TTATTTATAC ATTGATACTG TCACTTATAA ATCAAATCTT ACAGGTCAGG
TTCTGTGCTA AGCTCAGGGG NTATAAAANG AAATANGTCA CTGCACTCGC CCTCACGGG GCCCACCAGT ATAAGTGGT
AGATAGTTCT ATAAAG

SEQ ID NO:516: (Length of Sequence = 368 Nucleotides)

CCCATGGAGC TCGAGAACAT CGTAGCGAAC ACGGTGCTAC TCAAGGCCCG GGAAGGTGGC GGTGGAAATC GCAAAGSCAA
AAGCAAGAAA TGCGCGCAGA TGCTCCAGTT CCTCACAAC AGCCAGTGGG AAGAGCTGGG GCTCAGCCTC GAGCGTGACT
ATCAGAGCCT GTGCGAGCGG CANCCATTGG GCGCCTGCTG TTCCGAGAGT TCINTGCCAC GAGGCGGGAG CTNAGCCGCT
GCGTCGCCCT OCTGGATGGG GTGGCCGAGT ATGAAGTGAC CCCGATNAC AAGCGGAAGG CATGTGGGGG GCANTAACCG
CAGAATTTTC TNAGNCACAN GGGTCCTGAC CTCATCCCTG AGGTTCCT

SEQ ID NO:517: (Length of Sequence = 393 Nucleotides)

CCCAGCGCCT GGAGAGCCAG CCTGCGAGG TGGGCTGGG GAGCCAAACT GCGTTCCTGG TGCAGGGCTT CGGGTCTCCC
TAACAGACCT TATACGCTGA CCGCGGGCGG CCATGGCAGT GTCTCTTTGC TCAGACATCC AGGGACGACC ACATTCTGTC
AACAGCGGTC GCTCCACCAA TCCTGGGAGA AGCGAATCGT TTCTCCGCG TGCCCTGTCA GCCGCTCATG GTGCCAGAG
AGGAATTTTA GTGGCAGCAT TCCGGCTGTC ACGNCACGA AATTNCCAGG CCACTCCAAG TCAGAAGGA CCACCAGGAA
AAGTCAGGAA GAGAACCACC ATCAAGGTCC CAGGCTCTTT TTTGTGACA AGGACTTGA GGGGTTTGGG TCT

SEQ ID NO:518: (Length of Sequence = 465 Nucleotides)

CCTTCTCTGC AGATAGAAGA GCCAGAATGG GAAAAGCGAA GATCCATCAA CCTGTCTGAG CTCATTGATG TTTACAGTGA
TGGTGTGAA CTACTCCAGA TGGTGAAGGC ACCAGATTCC AACTGCAGCA ACCTTCTGAT TACAACCAGA CAAAGCCTTG
TNCIGCTTCG GGGGCAAAAT CTGACACCTT ACTGGGCATT GAGACTTCAA GGCCTGCGCA GCAGCCTACT CCTGGATATT
TCACTGATGA TCAGACATTA GACTTCCTTC TGCAGATACA GGATGGAGIT GGGATGAAA AGATGATGGT TGTGGATGGT
GACTCTGGGC TCCATTGTTT GGAGTTACCG TGCTCCGTTG TCACATGAAA GAAAACGGCC AGCCACCTCA GCAGTTACTT
TCAGACCAGA AGTCTGTCTT TCCTCTTCG GGGCCGAAGG CTGTGAGGT TGCATCTTCC CAATT

SEQ ID NO:519: (Length of Sequence = 382 Nucleotides)

GGCGTCGGT AACAGAAAAC TCAGTGATA CTGTGCTGTT GTTAGGTTGT CAATATAGTC TTTCTGTAGG ATGGATAGCA
TGTTTGAGAG GTGCCAACA AGAAGTTTGG GGGTTAGTAG TGTGTCTTGT GGAGGGTATT ACAGGACTGT GTAATTATAG
GACTCTAATC TGACATGGCT TGGCACCCAC TTGCAGCTAG TGGGTACAGG GTACAAAAGA TGTAGAGAA AAGCTCTACA
GATTACGTAC TTCTGTGCTT TCGTATGCTC AACACTGTCC TTTTGTCTC CATGAAAGAT GAAGGAAGCA AATTATGTA
TGINCTTTCT TTGACCTTCT TTAATCCTCT GATACTTTT AGATGCAATG ATTTTACTAG GC

SEQ ID NO:520: (Length of Sequence = 304 Nucleotides)

CCAAGACTGC TGATCTCTAA ACAAGCATCA AAACCCGAAG CTCATTAACA TCAGAGTGAG CTTCAATAAG GTGANCACTA
CAATGATGTA CAATTACATC CTAATANTTC ANTGCCCAAG AGCCCTGTAG AACTATTGCA AGGCCAGGN TTATCACAGT
ATGCAAATGC ACTAGGAAAA TCATTACCTA TTTAGTCCCC,TTTATTTTGG TGGGTTTAAC ATGAGAAGAG TAATCCATGC
TACAAGACGA GATTTCAITTT TACAGCTGTA GTAGCCAAGT GCAATAAAGC TTGANTCTGT CCA

SEQ ID NO:521: (Length of Sequence = 360 Nucleotides)

TTGAGACGGA GCITTCCTCG TCACCCATGC TGGAGTGAG TGGCGCTATC TCAGCTCACT ACAACCTCCA CCTCCAGGT
CCAAGTGATT CTCCCGCTC AGCCTCCAA GCAGCTGGA TTACAGCGT GAGTCACCTG CCTCAGCTC CCACAGTGCT
GGGATTACAG GTGTGAGCA CTGCCAGG CCTCCCAAGG TGTGGGATT ACAGGCGTA GCACCGCTCC GGGCTCCCA
CAGTGCTAGG ATTACAGTG TCAGCTGCTG CACCTGGCAA TTTTITGATA TTAGGTCCCC TGAAGTCCA AAAGAGATAT
ATGGCTTATT TGGTATAATG AAATCATACA GGAAGGCATT

SEQ ID NO:522: (Length of Sequence = 287 Nucleotides)

TTGAGGAAGT TCTGTGCTG GTGAGGAAAT TCINTTGAGT TCTGTAGGAA TTTTATAGC TTGTTTTCGA TTCAGTTCTA
TCAACAAGCC AGCAGCAACT CAAAGGGAAG CCTCCTNCIG GCATATCAAT CACACAGGCA CATAGGATCA TATAGCATAT
AGGATCAGTC CCAAGAAGAA CTATNGGGTN GGGGAGAGGT TTTCTTCCA CTTCTTGGN TTCAGTGACT TTGAGATGGA
CCTCTTTTTT CNNTGGACA AAATGTCATC ACACCAACAT CTTATTG

SEQ ID NO:523: (Length of Sequence = 318 Nucleotides)

CCTGTCTCT ACTAAAAATA CAAAATTAG CCGGCATGG TGTCACGTGT CTGINATCCC AGCTACTCGG GAGGCTGAGG
CAGAAAAATT GCTGAACCT GGGAGCAGA GGTTCAGAC AGCTGAGATC ACTCCATTGC ACTCCAGCT GGGCAACAAG
AGCAAACTT TGCTACAAG TCCTCCTACG CTGACAGGTC CTCACTCACC TGAATCTTTT ACGCCAGCAG CGTCTCTTCA
CTGACGINCT TCINATGCC GGAAATAGGA CCTTCCCTTG CCANCGGCA GTGCTGGCTG CATGCAGTCG TTACTTTT

SEQ ID NO:524: (Length of Sequence = 238 Nucleotides)

ATCTCATTGG AGCCAGGGTT CCAGTTCTCA TGCAAGTCGG CCACAGGAGC CACGGAACCG CAGTAGGATT TCTACTGTTA
TACAGCCCTT GAGGCAGAAT GCAGCAGAAG TTGTGGACCT TACCGTTGAT GAAGATGGTA AATTGAAGTA GTAACAGTAG
AAAATTATGA AAGGAGTTTG ATAAAAGGAA ATCTCTTAAT ATCTAGAAA CTCCTCTGCT TTAAGGTAA TATATTAT

SEQ ID NO:525: (Length of Sequence = 168 Nucleotides)

CCAATGAGTG TGGACCTTAA ATTTAAACAG CTAAAGCTAT AGTCTAAGGA CAGTCTCAA TAAATACCTT TGAATTGTCA
TATGGTGCCC AGGAGGGTCT TGTTGAAAGG GTTTCATGGT AGTGAAAGAT GTAATANTC TTTTTCCTT TTAACCTAA
GCCTGTCC

SEQ ID NO:526: (Length of Sequence = 387 Nucleotides)

GGAGGTCACA CGGTGAAACA GACACAGTTA TATACAACAG GGCAGGTTTT TAAAAAGAGT TGCTCTCAGA CGCATTTTTT
CTGCTCCCTA AAAAGCCGAG GAAGATACTG GNTCCACAGA AAGAAAAGGC AATGCCGTAA CATGAGGCC TCATGGCCGC
ACCGTCCAGG GGAAGGGCTG TTAAAAACAC AAGTATTCTT GTGAAATACT TCGATCTGAG CATTAAGGCA GGTCTGCAGG
AGATCCGTCC TGGGGACTCG GACAGCAACG CTACCGGCTC CGAGAGGACA GTTAAATGTC GCCTCCCGGC AAGAGGGGCG
GAGAGATCAG ACAAGGAGTT GTTCCTGAGT TNAACCTGC TACAACAGCA AACTCCAATA AACTCAA

SEQ ID NO:527: (Length of Sequence = 336 Nucleotides)

195

TTTGCAGTTT TACATTCCCC TAGTACATCC CTGCTTACTC GGGAGCACAA AGCTTGGTTG TAAGAAATTG TGATTGGAA
 GTAGAGAAAA GCAAGGAAGT CCAACCTCAG GAGTGTCTCT GTTACTAAGA GGAGAGTGAG ATCCAGGGTG TGGGAGATGA
 TCTGAAGGTC TATGGGTGGG GAGTGCCACA GGAAGAAGGG TTCTGGTCGG AGTTAAAGGA GGATATATCT ATATNCTGGG
 AGATGAGCTG AATTGAGAAC ACATGGAATG GGAACAATTC TCCCCATACT GCGTTAAGC CAAATTAGGC TGGCATCCCC
 CACCACGGCC AACTAA

SEQ ID NO:528: (Length of Sequence = 482 Nucleotides)

TTTTACTCTA GCGTGAGGAG GGGGCTCCT AAGGAAAGTC ATGCTGGGTA AACTGTGCGA TGTTACAGAG CACATTGAGT
 CTGTGGTCAT CGTGGTTCTT CTATCTTCAC TGTACCTGT ATCCTGTTAC ACATACTCAG TTCTTAATTG TAAGCTCAAT
 TTTGGTATTA GCAAAGCAT CTGTCAAGTT TTCTCAATT ACTCACACCT CTTCTTGCCT AAATAAAACA AAGAAACAAA
 GAAAACAAGT GTGGTGTCT TACACGTCCT GGGAGTTCT CGTCACTGAC TTTATATATA TANAANAAAG AATGCACATG
 CGGGCCACGT TCACAGATAG ACAGATTAC CCGAAATGA GGAATAGGG GCCTTAAAGG CTGCCGANA NCAAAATGGG
 GTGGAAATTA GCAANCGTTG TTTTCGGTC AATTNCCAAT TGTGCACTGG CTGCGTTGAG ACAAGNCCAT CTTCCAATTT
 CC

SEQ ID NO:529: (Length of Sequence = 412 Nucleotides)

CTCTCAGACA GTATCCTCCT CGAAGCAGGA ATCCTAGTAA ATCTCATCTG CGGCATGCGA TTCCTAGTGC AGAGAGGGGA
 CCTGGGTTAT TAGAAAGTCC TTCAATATTT AACTTCACTG CAGATCGATT AATTAAATGGT GTCCGGAGTC CACAAACAAG
 GCAAGCAGGT CAAACTAGAA CACGGATTCA AAACCTTCA GCATATGCCA AGAGAGAGGC TGGGCTGGG CGTGTGGAGC
 CAGGCAGTCT CGAATCCTCT CCTGGTTAG GGAGGGGAAG GAAGAATTCC TTTGGCTACC GGAAGAAAAG GGAGGAGAAG
 TTTACAAGCA GCCAGACACA GTCTINCAAC GNCACCAAG CCTCCGTGCG CAAGCTTTCG AGCTGGGGGC TTTTCCAGCT
 TCCCCCAT TA

SEQ ID NO:530: (Length of Sequence = 301 Nucleotides)

ACTTTTAAAT AATAGTCATT TAAAGTGGT GAGATAATAT CTCATTGTTG TTTTNAATTG CATTTCTCTG ATGCTTAGTG
 GTGTGAGCA TTTGNCATA TAACINCTGG CCATTGTGAT GTCTTTT TTTT TTTT TTTT TTTT TTTT TTTT TTTT TTTT
 CACTTTGTCA CCCAGGCTGG AGTGCACTGG CGCAATCTTG GCTTACTGCA ACCTCCACTT TCTGGGTTCA AGTGATTCTC
 CTGCCTCAGC CTCCAAGTA GCTGGGATTA CAGNGCCCA CCACCACGCC CAGCTAATTT T

SEQ ID NO:531: (Length of Sequence = 312 Nucleotides)

CAGATGAGAC CAGGCTTGA CAGTGGGGC AAGTCTTACC AACCTGCACA GCACATCCAG CAGGCAACT GTGGCTCAGC
 AGGTGCCAAA TGGAGCCCAT GGGCAGAAGA TGCCACAGC GTTCCAGATG TGTGTGGTCT GAGAGATAAA AGGACACAGA
 ACAAGATGAC TGTGCAATA GCCAAGTGGT GGCAGAAGTT CTGCATTTC AAGAGATGAT CCACTCAATA ATTTGACGAT
 ACTAGTTGGC CAACATGCTC AGAGAAAACA GNTTATCCA CATCTGGAGC CTCATTCTCT CTCAGGATCA TT

SEQ ID NO:532: (Length of Sequence = 313 Nucleotides)

GCACAATCT CGACCTTTGG GAGCAGCCAG GGAGAGTCA CTGTCCAGC CCCCTGGCCT AGGCACAAAG GGGTGGGAGA
 GACAGCTGGG CCAATATGGT CTATTACGC CTGAAACCC GCGAACCAC CCTTAACTCT GCCTTCAGGC ATATCCCCC
 ACGTCCATGT CCAGGAGCCC CCTACTGTC CTGGTCATCT GTGGCCCGG GAATAATGGA GGAGATGGTC TGGTCTGTGC
 TCGACACCTC AAATCTTTG TGAGTATGTG GGGAGGGCT GTGGGGAGG AGGCGINAG GGCTCTGGGA TCT

SEQ ID NO:533: (Length of Sequence = 378 Nucleotides)

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GTAATTCAT GTGGCTGACT GGGTAACAGA TTTGAAGGT ATCAGAGACC TTCATGTTGT AGCTCATCGC AGTGTATTGT
TTGTTGCTTG TCTCTGCTC CCGTTGTATT GCCATCTCA AGGGCAAAGA CTGCATCTTT GTATTCCCAG CTCCTAGGCC
TGAGTCAGGC ACATAGTAGG AATTCAGAAA GTATGTTTTG GATGTAACAT TCCTCCTTTT TCCTGGACAA AATGGCCTTT
TGTCGGTGC ATTGTCCTTT CCATAGAGGA GGGGTGGGG CAGGATGTIN AGATGACTGT GTTGAATCT TCAGTAGCT
AAGACAAGGA TACGTNTTT CCATGGTGCA AATCTAAAGG GTCTAGTGA GGTGGTTC

SEQ ID NO:534: (Length of Sequence = 374 Nucleotides)

TTTTTTTTT GTCCAAGGT TATCAAATTA ATTGATTTTG GGGGGCAAGA TAAAAATTT NATTTGATTA ACTTCTCTA
TTGGTTTTTG TTTCAATTT CATTTATTC TTCTTTATC TTTATAATGT NCTTACATCT GCTTGGTTTG GGCTGGGCAC
AGGGCTCAT GCCTGTAATC CCACTACTTT GGGAGGCCAA GGTGGGCAGA TCACTTGAGA CCAGGAGTTT GAGACCAGCC
TGGCCAACAT GGGGAAACCC CGTCTCTGCT AGAAATATAG AAATTGGCCA GGTGTGGTGG CCAGCACCTG TGATCTAGC
TACTCGAGAG GCTGAGGCAG GAGAATGGCG TGAACCCGGG AGGGCAGAGC TTGC

SEQ ID NO:535: (Length of Sequence = 433 Nucleotides)

TGCCGACTGA TTCCAAGTCC CCAGGAGGGC TGTGAATGCT AATAGATATT TGGGGTTTAT CTACATGGAT AAATCAGAAT
TGTTAACATT ATTTATAAAG ATAATACTTA CATAATTTIN AAATTCACAA AGATTGTTTG GCTAATGAT TTCTAAATGT
ATGCAATATA ACATTAGGCG GCTTTTATTA ATTCTATTTA TGTAAATGAA AAGCTCAATT CAGCAAAAAA CAGATCTGAT
GGGATTGGT TATTCTCTAC CTGATCAGAA CAAAGCCTTA CTTTACATTC CTGACTACCG ATTGGCTGAG GGATTGTCTA
ATAGAATGGA GCTTCTTTT GAGCGGTATC CATGTGTACA AAATTGGGCT GCTTTACCTG TGACCCACGG ATTGCTGGAG
GAGCTTGA AA ATGTAGTCAG CCGTTTCTTT TGG

SEQ ID NO:536: (Length of Sequence = 438 Nucleotides)

GATGAATTAA GAGGGAATTT TATAAGTAA AATCTTTAGC GCTGTGATC AAAGAGTCC AGGCCGGGCG TGGTGGCTCA
TGCCTGTAAT CCCAGCACTT TGGGAGGCTG AGGTGGGCAG ATCAGGAGT CAGGAGATCA AGACCATCTT AACACGGTGA
AACCCCATCT CTACTAAAAA TACAAAAAAT TAGCCGGGCA TGGTGGCAGG TGCCGTGAGT CCCAGCTATT TGGGAGGCTG
AGGCAGAAGA GGAATTCTTG CAGCCCGGGG GATCCACTAG TTCTAGAGCG GCCGCCACCG CGGTGGAGC TCCAGCTTTT
TTGTCCCTT TAGTGAGGT TAATTCGAG CTTGGCGTAA ATCATGGGTC ATAGCTGTTT TCCTGTGTGA AATTGTTATC
CGNTCACAAT TCCACACAAC ATACGAGCCG GAAAGCAT

SEQ ID NO:537: (Length of Sequence = 316 Nucleotides)

TAGTAGCACT AAAGCCCCGT TTGGTCACA CTCTCACTA GGTGAGAACC TGACCAAAAA TGTGGAATTA TTAAACAAAA
TGATGGGAAG CCAATGTTCT GAACTGAGC TCTTGCACTA GGCCCCACA GACCAAAATTA AAATGGAGTC ACTAGTGCTA
AATGCTTTGG AGTCAAACAG AAATGTTAAA GAAGATAGAT CCCAAACAG AGCAGTGTIT TATTTTTCTC CAGAAAACAG
GAGATTCAG CATAATAAGA AAGTCTCTC TGTGTAAAC CTTACAAAAA AGTAACCTGA AGTAACCAT TTTTTT

SEQ ID NO:538: (Length of Sequence = 303 Nucleotides)

ATCTTCATGG GCGTCTAAC TGTAACAAAA ACCCCACAAT TTGAACAGAA GAACAGAAGT ATCTGGTTAC AGAAGTGCAT
TCATACATTT CACAAATGTT TCAGTATCCT CTTCTCCCCG ACCCAGCAT GAGCTTTAAT TGGATGTATT TATTCTTTCA
CCAGCATGCC CATGAAGNG CTAAGGAAAA CATTTACCAA GTCTGTTTCA AAATCTGTCC TTGGCATATC AAACTTTTTC
TCTTCTTTT TCATGCTTTT TTTTAAAAA AAAAACAGGA GAAAGCGAAT AGAGAGGAAA GAG

SEQ ID NO:539: (Length of Sequence = 362 Nucleotides)

197

CATGTCATAG TGGCCTGCTC TCCTAACACA GCACAATTTA GGGCATATTT TCATGATGGT CTATCACTGG ATTACAACAC
ATCTCTTCAT TAAAGTCTTG GGAAAGAGGC TTCAACTTIN CTGTGTGAG AAAACTTCAC AGGTGTGTAA AGTTTGATCA
GTATGTATAA TATATTINAT TACATATATT TNATTTINAT TTTTCATTTT TTGTCATACA TAGCAGGTGT ATATACITAT
GGGTTATATG AGATATTTTG ATAAAGGCAT GCAATGTGTA ATAATCACAT CAGGGTAAAT GCAGTATCTA TCCATCACCC
CAAGCAITTA TCCTTTGIGT TACATACAGT CCAATTACAC TC

SEQ ID NO:540: (Length of Sequence = 416 Nucleotides)

CACCAGGGAG AACCAATACA ACAGAAAAA AGCAGAGAAC AGCTATGTGT CTGCCAGGT CTACCAAGA TAGTCATCCA
AACATGAACA GATGAGAAGG CTGTTTTTCA AGAAGGTGAA AGTGACAGAN TATTCAATGA ATCTGAACAC ATGAAGATAC
TGAGACACCA GTAGTTCAGC AATAAGTGA GAGAAAACTA AGCAAATGAG AAACCTAGGA ACAATTATGC AGCAAAGAAC
AACTGGATAA GCTGAAAAGT GTTTAAAGAT GCTGCCGTAA ACACTAAGTA TCACAATCAA ATTCTGATTT GTAAAAATAG
AGGTATGGGA AGGTACANG TATGTTGTG GGGCAAATG GTGAGGAGAG CTAAACCCCT CTTCTCCCT AATGAGGAAT
TAAATAATCC CATTA

SEQ ID NO:541: (Length of Sequence = 341 Nucleotides)

GAAATACTTC CAGGCCCTCG AAAGGCCATC CTTGGGACAC ATGTAAAAAG CTGTCTTGT GGGCCGTTAT TCCCACTGAC
CGTCTGAGT GATCACCAG GAGCGGGCG GCAGCAAGCA GAGCTACCG GATTGGGAC AAGGATTTA AAGGCAGCTA
CAAAGCTGAG CTCTATTTGC TGATGATAGT CTCTGTTGAG CTGTTTAAA TGACTGTCTG ACTCACCATG GTATTTTNC
ACAAATTAAA AACACATTTT GGGTTGTGCA ACAGTGGTTC TCATCTTTC AGGCAGGCAG ATTATTTTAA TGCTGTTTAT
ACAGGGAATT GGGACTCTCG G

SEQ ID NO:542: (Length of Sequence = 334 Nucleotides)

TTGTGTTTC CTACCTTAAC CAATACCTCC TGGAAAAAG AGGTATGTGT ATAAAAATA ACCATACCCA AACATTCCCA
CAACATGACC TTAATAAGCT GGTGCACAGT AGATTATGGC AGAGGAAAGA AAATTGACTT TAGAATTAGA GAAACTTAGG
TTCAAATCTC AGCTCTGTC TGCTTTGGTT GACCTTCAGT AAGTCCATT TNCITCATCT GTAAAATGGG AATAACATCT
ACTCCACAGC ATCATTAGAA AGATTAAATA GTGGCTGGC ATGGTGGCTC ATGNCITGAA TCCAGCACT TTTGGGGAGG
CTGAGGTGGG GCGG

SEQ ID NO:543: (Length of Sequence = 350 Nucleotides)

ATTGTGTTGC AATTGACAAC ACCTCATTAA TTGTAAGCCC AGTGACACTG CTGTCTGTTT CAAGTCACTT TTAAATTACA
CACGTGCTAC TTAATCTTAA AAGCAAAATT AAACATTGGA CTGGTTTACA TTCAAGCTA CAATATGGAA CCATTGTATT
TGGAGGAATG AGTTTAATAT GCATTGTAAA ATAAAAATAG GGGGTACTTT GCATTACAG CGGCTTATGT AATTAGGTTC
AGTCAACTGT AATGTTTCAG GTTAATGTCT TCCATGGATG TATGCTGTGT AAATAGTGAA CTACATATC CCTTAATACA
TCTGAATTAT TACATAAATC CTTAATATTA

SEQ ID NO:544: (Length of Sequence = 328 Nucleotides)

GGGAGACGAG AACTCTTGAG ATCGGGGTC ACCTGTAAGT CGCTGGACCC AAGGGGAAG CGTCTTGATT CCTGGAGGAA
ATCTCCGAAG TGATGTGTAA CCTGTGTGT CGCTGCACT TCGGCGCAA CTGCCCTTGG TTCAGTCCCC TGTTCTGTGA
GGAGGCGGGG ATCATGTAA AGTGGAGCAC ATCGCTCCG GCTTGGACGC CTTNACCTT TAAGTGTTC TGATTTAGTT
TGCTTTGGG TCTACCAAGA ATTCTAGTCA GTTAAGTAGC TTTTAAAGCC AGGTTCCTGA ATTTGGTAGG CATGGAGACT
CCAGTAG

SEQ ID NO:545: (Length of Sequence = 342 Nucleotides)

GGGCTATTAC CTCTGGGCAC TGGGAAACT GGGAGACGG ACAAGGGTG ACCAATTTT CAGTGTATGC CCTTTTCGAA
GTGTTAAACT TTTTITTTT TTTTTCAGA CAGGNTCTCA CTCTGTGCC CTGCTGGAGT GCAATGGTGA GATCGTAACT
CACTAAAGCC TCAACTTCCT CGGCTCAAGC AATCCTCTCA CCTCAGCCTC CTGAGAAGCT GGGACTACAA GTNTGTGCCA
CCATACCTGG NTAATINTA AAGTTTTGT AAAGATGGG GTTTCCGAT GTGCCCAAG CTAGTCTCAA ACTNCTGGGC
TCAAGTGATT TGCCACCTT GG

SEQ ID NO:546: (Length of Sequence = 280 Nucleotides)

CTGTAATGC CAGCATTTT GGAGGCTGA GGCGGAGEN TCCTTGAGC CGAGGAGTC GAGATCAGCC TATGCAACAC
AGTGAGACCC CTATNCTAT TTNATTTAA AAAAAAAAA AAAGGGGTC ACGTTTACTG CCACCATCCC AGGCAGAAAG
ATGAAGCCTA GAGCCTCTCA CTGCTTCTTA GTGGGTCTTG GGTGTGAAT TGCTGTCTTG GGTATATTTT TTGCAGAAA
GCATCTGGCA TCAGGCACTG GTTCTCAAAG TCGGGCCCC

SEQ ID NO:547: (Length of Sequence = 298 Nucleotides)

CTAAGAGTT TCACATAGTG GCTCAGTCCA GCCTTGTTGG GATCTTGCCG GGGCTGGGG CCGGTGGTCC GGGCCCTAGG
GGGATGCCIN ACCAACAGAG GCTCINCAGG CTCTGAAGAT AAGCTGAGGG CAACAGTGA CAGAGGGGGC TGAACCTGCC
TCAAGGAGGC TCATTATCAA GAGCAAGTCT TGCTGGCTTC TNCTGAGGCT GGGGACCAG TGGCCCTTTG GCCAGCCAGG
ACCAGCAGCN CTNACCACCT GCTGAGGGC AGTTTGGTTC AGGGGGGCA CATAGAGG

SEQ ID NO:548: (Length of Sequence = 311 Nucleotides)

GAGACAGGC TGTTCCTGC ACTACACTGG TCATCTGACC ACTTTCTGC AATGCTAAGA AGGTATTCTT TGACCAAACA
GCAGTCCACA TACAAGTTTA AAAGGGGCC TGTATTATGA GGAACAACAC TGAGGTGGTG CGTAGCAGGT ACAAGACGCC
CAATATTTT CAGTTTATCT TACGGCTGA CTCTTATCT CCACACTGT TTCTAAAGA AGGTCCACAT TATTTTGGT
ACTAGCCTAG TTTAAGTGA GATACTGTG GCAACTTNA AGAAATGACA TCAGGCACAC AGGCTGAGCT T

SEQ ID NO:549: (Length of Sequence = 387 Nucleotides)

TTTATTTTGG TGTAAGACA GGAAGCTGA AAATACACTG TATTTAAAT TTNCTTGGTT CCCCCACACA TTGTGGAAC
CCCTCCCCC CAGAGCTAAT CTGTTCAAC TCAATACCT AAAAATTACA GCAGCCAAAC AAAAGCATGG GGGAAAAAA
AACAAAACA AAAACCAGAT GGAGAAGTA GCCTGGGCCA GTAGTGTAC TTGGTGTGA CGACTGAGGT GCTGAACAGG
AGCTTCGTG TCTGTTTTT TCTTTCTTT CTCTCTTCT CTTCAGAGAG GGGATCTNGA AGTAGCTGGG TGTGTCCAGT
TTCATGAAG CTGCTCAAT AGCTGGCTG AAGGAATTTT GAAACTNGG CACAGGAACA CCGGTTT

SEQ ID NO:550: (Length of Sequence = 377 Nucleotides)

CACCCCAAC TCTTACCAA GTAGGGGCC TGGCTTGCA TTGCAGAAGA GCTTTCCAT CCTGGGTGA GCATACCTAC
TGGTAGTGGC TCGTGATTG CCTGGGGAGG GGCTCCAGA GGTAAACCA CAACCTGTG CTACTGCTAT GACCACAGTT
CTGCTTCTGC TGCCCTCAA CTGGGAAGA AACAAAGAG CTGAGGGCTT TACTACGCT TCTAGCACTA CGCAGTCACC
ATATAAGAG GAGCCAGTC TCTCTCTT GTGAACCTT GACCCCAAC TCTTACCAA GTGGGGCCCC CAGCTTGGGC
CAGCAGACA GTGGCCCAA CCCTAGGCT GAACATCCA GTAGCAGCTG CTCGCG

SEQ ID NO:551: (Length of Sequence = 320 Nucleotides)

GAGTTTINIGG TGAGCCGAGA TCACGCCATT GCACTCCAGC CTGAGCAATC AGAACGGTCC GGCTCCTGTT GCTGAGGAAG
CAGCTCTGGA TGACCTTCAT GATGAAATTT GCAGCTCGC GCTCAGTCAT GTTGGGGCTA AACCTGTGCC TGGAGGAGAG

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GCTGTGTCAG GGCTGCCATG GGCAGGGCCG TGCTGGCTCC CTGGCCAGT GGGAGGAGGG TCTTCCATGG GGACGGACTT
CAGCTGAGAG CCATGCCCTG GGAAATGTAC CTTTGGGGTC CACATGTGG AAGATGGGGT GCTGTGAAGG CCACACC

SEQ ID NO:552: (Length of Sequence = 334 Nucleotides)

ACAACTGAC AAGAGAAAAC AAAGAATTCT TTGGTGATCT GGACACGCTG ATGGGGCCTC TGACCCAGCA CAGCAGCATG
ACCAATCTTG TCCGCTACGT TCGCCAAGGA CTGINTGGC TGCGCATCGA TGCCCACTG TTGTAGTGGG TGTTCTCAGA
TCTCTAGCAT CACGACCAT CACTCTACCT CTACCAGCGC ACTGATGGTC ACTGGTGGAA CTCCACTCAC TGGGGAACGT
TCTCTTTGGT TATGTTTGGT TTTATGCTTC TTTTGTATC TGTA AAAAC AGAAGTCATT GTAAGTTGAC ACTACAACCT
AAGGGCAGTG TACG

SEQ ID NO:553: (Length of Sequence = 371 Nucleotides)

GAAAAGGGGA AAAATCACA TATGTGTTCT AGACAATATT GGTITAGATT TTTTAAAGAT CTAAAATTCA ATTATGGAAA
GCCAGCAGCC TGATCCAGTT ACTGTGACTA AAGCAATGT CAGACCATCT CTAGTCAACC CCTATAGGGT TTGCAATGT
GTCTACCCCA ATTTTGGATC AGGAGGGGTC AAACAGAAAT ACAGCAATGT GATTAACTG CTCTTTTGA AACAAATATGA
AAAGGTTTGT NCTTTCAAAG TAGATTCTAA CAAATCGTCT GCTCACTGTG GGGTAGCAAA GNGAGAAAAG CAAATCTTTC
TATTAGTCTC AAGCAAGTCT TCAGATTAC ACACAATCTA ATGGAGGCAT C

SEQ ID NO:554: (Length of Sequence = 331 Nucleotides)

TTATGACTTT TTTCAATAAG GCTATTGTAT CAGCCTGTC TCTCGTCT AATAACGACA TACCCAGAC TGGGTAATTT
ATAAAGSAAA GAGGTTTAT GGAATCAG TTCCACATGG CTGGGAGGT CTCACAATCA TGGCGGGAGG CAAAGGAGAA
GCAGATCAC ATCTTACATG GCAGTAGGCA AGAAGAGCAT GTGCAGGGGA ACTCCCTTT ATAAAACCAT CAGATCTAGT
GAGATTATT CACTATCAAT GAGAGGCAGC ATGGGAAAAA CCTGCCCTC ATGATTCAAT TACTTCCAT TAGGTCCCTN
CCACAATACA T

SEQ ID NO:555: (Length of Sequence = 305 Nucleotides)

GCTGGGACTA CAGGCGCCCG CCACCACGCC CGGCTAATTT TTGTATTTT TAGTAGAGAT GGGGTTTCAC CATGTTGGCC
AGGATGGTCT CGATTTCCTG ACCTCATGAT CTGCGCGCT CGACCTCCCA AAGTGTGGG ATTACAGGCG TGAGCAGCCG
GCCAGCCCA ACACATGGTA TTTCTGTCA TTTTCAATTA GTCTCTGGT TGCTGTGTA TGGTCTCAGG CTTTATTTAC
ATTTCTCGA TTAATAACAG ACTGAACAT TTCAGCACAC TTTTAGGTT ATTGAATAAC CCTA

SEQ ID NO:556: (Length of Sequence = 318 Nucleotides)

CTTTTGGT GATINCTAAG CTCGTTTIN CTATCCTAT ATATATATGT GGTTGGTTT NATTTTAGGA TTTAAGGTT
ATCCCTAATA AATTTGAGA TGTGTTCCAT AGCTAGCTG TTGAGATCTT TTATATCAA AAGTTAATAT CTGTGGATTT
NTAATCATTC TTTCTACATA TTTAACAAG TCATTAGCAA AATATTGAAC AAAACCTGTT ATTCATATCC TTAGATACAG
AACATCAATA TCCTGAGATA CAGTACATCA TCAAAATGTG GTCCCAAT GNGCAGCAAT TAGCATCATG TGGGAGCT

SEQ ID NO:557: (Length of Sequence = 349 Nucleotides)

GGAAGCAATG TGCTTCTTCT TAACAGAGAT ACTGCACTAT TCTCTATGTA TACTCACTG ATGGCATGGT ACATGTCTC
CAGGATGCT TGCTCAAAGT CCTTGCTCC ATTCAACCT TTCAGATTTT TGGAACTC CTAGAGACAG GCCAGTAAGT
TTTTTCCCT TGTGCAACA CTGAAGCCC ACCTAAGGAA CTCTGGGT TTCAGTAAAT AGGACTTAGG AAAAGGTAAG
CGAAAAACC CACTTCCCA CCCAGTCCC TTTCTAGGT TGGGCCAGC CCTTCTGA TTCCCTTGA CAGAACCCCA
TCCATCATGC CCACTGGAAT CCTATGTC

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SEQ ID NO:558: (Length of Sequence = 279 Nucleotides)

GGGCCAGGCG CTGTGGCTCA CGCCTGTAAT CCTAGCACIT TGGGAGGCCA AGGTGGGCAG ATCACCTGAG ATCAGGAGTT
CAAGACCAGC CTGGCCATGT TGAAACCCCA TCTTTACTTG TAATACAAA ATTAGCTGGG CGTGGTGGTG TGCGCCTATA
ATCCCAGCTG CTGGGGAGGC TGAGACAGGA GAACCTCTTG AACCCGGGAG GCAGAGGTTN CAGTGAGCCA AGACTGCACC
ACTGCATTC AGCCTGGGCG ACAGAGTGAA ACTGTGTCT

SEQ ID NO:559: (Length of Sequence = 278 Nucleotides)

GAGAAAGCCA AGAGCCATCT GGAGGTGCCG CTGGAGGAGA ACGTGAACCG CCGCNTGCTG GAGGAGGGCA GCGTGGAGGC
GCGCACCATC GAGGACGCCA TTGCAGTGCT CAGCGTGGCG GAGGAGGGCG CCGACCGGCA CCCAGAAAGA CGCATGCGGG
CAGCCTTCAC AGCCTTINAG GAAGCCAGC TGCCGCGGCT CAACAAGAG AACCCCAACA TGCGGCTNTC GCAGCTGAAA
CAGCTCTTCA AGAAGGAGTG GCTCCGCTCT CCTGACAA

SEQ ID NO:560: (Length of Sequence = 304 Nucleotides)

CAAATGTTAT TGAAGTTAT CTAGAAGGCT CAGTAACCAG AACTTCCTTT CATCTGCTT TTCTTTTCT TTTTTTTTTT
CTCTGAGAC AGTCTGGCTC TGTCTCCAG GCTGGAGTGC AATGGTGTAA TCTCAGCTCA TTGCAACCTC TGCTGCCCGG
GTTTGTGCAA TTCTCCTGCC TCAGCCTCCC GAGTAGCGGG ATTACAGGCA CGTGCCACCA CACCTGGCTA ATTTTTTTTT
TTTTTTTTTT TGTATTTTT AGTAGAGCCG GGGTTTTTAC CATGTTGGCC AGGCTAGTTT CAAA

SEQ ID NO:561: (Length of Sequence = 323 Nucleotides)

GATGGTAAAC ATAAACCCAA ATATATCTGT AATTACATTA AGTGCAAGTG AACCAAAACA GTTCAGATAA AAGACAGTAC
CTATTTTATA GCATTATGAC TATCATGAGG TAATATATGT AGAGATTAGA GTACACATGT CATATTAGGA GGTGTGCAAT
AAATGATACT TTATTCTGAA GATTAAACATA ATTCATACIT AAAAGGATCA AGAACTAGAA TATTAAAAAA NTAGAAATGTG
AATGTTTCTG CAAGTTTGA TAAGAACAAG CCCATAAATT AATCTCTAAT TTGCTACATT TAGGGAATAT GGGTAATGAC
TAC

SEQ ID NO:562: (Length of Sequence = 214 Nucleotides)

TCTAATNAGG CCTGCGTGC TGTGTCATCC CATGCCGGAA GAAGGAAGGG CAAGAGTGGG TGAGATTGTN AGCACGAGAG
AAGGCTGAAC TTCATATTTT AACAAACCCAC TTTTCATGAT AINATAATCT TCGCAITAT TTTTTTCGGT CTCTTCATGT
NCTCTAACIT TTCTCTGGGN TTTTGGTCTT TTGCTCTTC ATTTTITAGAA GCTC

SEQ ID NO:563: (Length of Sequence = 358 Nucleotides)

TTTTTTTTGT GAGAAACAGA AGCTGAATAT OCTGATTGTA TTTGCCACAC AGGCGTTCAA TGGCTTAGCA GTGCTAAAGA
TFTATTTTTA TTTTTTTGGG CTCTGGGCTG ACATTGGAAA TTTTNCITGAA TGAGAAAAAC CATCCTCAAC CACTGTTTTT
TAACACTGAG TAACTTTGGA AATTAACTTT TGCCACAGAC TTGAAAATGT TTCTTAATGA ATTTGACCTG AAATTACAAG
GTACAACAAC ATAATATGGT AAATTCATTT CAATAAAAAC TAAACTTAA GATTGTCAAG CTGCTTTATA TACTTNCITG
GCTATGAGAA GTCAAAACAG CGCTGTATTG CCAAATCC

SEQ ID NO:564: (Length of Sequence = 405 Nucleotides)

ATGTACTGTG TGTTTCATAC ACATGTTTCC TTTAGICTTA AAATCTGGCT CATGGGGTAA AACTATTAT AATCTCCATC
CTCCAGATGA GGAAAGTGAG ACTTAGAGGT TAAGTACAIT TTAGGATAAA GTAGGGTATT TCGATAAATG TTTCAAATGT
GTTTCTGGTC TCTGAGGACT AACTCCAG GCTGCTGGGG ATACAAAATA CCCTTTCTTT ACCATAGGAG CACTTGGGTA
GAATATTTGC AGAAACAATA AACTGGCTGA TATTTAAAGT TCTCTTCAGC TCTGACATTC TATAATTTCA TTGACCTCT

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TTGCATTAA TTATGTTGAT TTTCCTTTCT ACCCCTTGCT TAGCTAAAAA TATACCCCTT CTNIGTCCAT GGACAGGAGG
ATGGG

SEQ ID NO:565: (Length of Sequence = 196 Nucleotides)

CATCCACATC AGGCAAAGGC AAAGCAGGAC CTGAACCTCC CACCCCAAGC CCTACATCCA TGCAAGCCAG ACCAGACTGG
GTCAGAGGCT AGAAGGGGNC TCACAGGNTT GCGTGGGGAA GCCTGGGCC AAAACCTGGC CCTNGCTCCA GCGCAGAGNA
CCCACCTGGG CATNAGACTT GCGGCAGCGT AGGGGT

SEQ ID NO:566: (Length of Sequence = 275 Nucleotides)

TTGGAAAAA GAGAAAAA AATTCCTGCTT CATTTACGAA TGTGCCAAA GGAGGCAAGT TTTCAACTGA AAACAAAACA
TAAAGGTCTA TGTGGATGCA GCCAAATGTT TCTCCATTTA GAAATCATC ATAAAAGGTG GCAGCACTTT TTTTGCTTGT
TAACTATATT ACITATAACT GGCTGCACCA ACATTTCATC TCAATTTTGT GAGTGTCTCT TCTGATCAAT CCTAAAAGCA
ACACAATCAT TTTAGAGGTT GCAGACTACA ACAGC

SEQ ID NO:567: (Length of Sequence = 349 Nucleotides)

CGCTCGINTG TCCCACACAA ATGTTTAAAG AGTCACTGCA ATGTACTCCC CGGCTCTGAT GAAAAGAAGC CCCTGGCACA
AAAGATTCCA GTGCCCCGTA AGAGGCTCCC TTCTCTCTGT GGGCTCTCCT AGAAAACCAG CGGGACGGCC TCCCTGCTGA
TACCGTCTAT AACCTTAGGG GGNCTCGGG CAGGCAAACCT CATCTCGGTG ATGGCTGTAG ATGCTAACAC TGGCCAATTC
AATGCCACAC CTACTGGTTA CCCTTTGAGG GCATTTCTCC AGACAGAAGC CCCTTGAAGC CTAGGTAGGG CAGGATCAGA
GATACAACCC GTGTTTGTCT CGAAGGGCT

SEQ ID NO:568: (Length of Sequence = 368 Nucleotides)

CTGGTAACCT CCCGATTGNN TTCCCCGCC TCANCCCTTT CCCAGGGCTA TTCTCTCCC ACCTGCTGCC AGGCCTTTCC
CTGGCCATCC TGTGTTAAAT GTCATCCGCG CCTTACTGTT ATGTTCTCCA CAGCACTTGA ACACGACCCA ACATGCTTTT
TCACTTCAAG GTTTATCTCT CTATTAGTTT TCCAGAGTC TGCTTCCCTA GTGTCCATCT CCGCTGCTCG AATGCCCTCTT
GAGAGCCAGT GCTGTATTT TGGTCCINGT GGTATGGGCC TGGCACATAG TAGGCAGTCA GCAGATATTT ATGGAACAAA
CAAATGAATT TGTGTGACTA TAGTTCAATT TTCATAGTTC ATTCATAG

SEQ ID NO:569: (Length of Sequence = 328 Nucleotides)

TGTCACCTAA TGCACAGCTG GGGCTCAGGA CACAGCTTTG CACACCTTAA GINCTCAATA AATGCTAGCT CAGGGCAGAG
CTTTGCATAC CCTAAGTACT CAATAAATGC TAGCTCAGGG CAGAGCTTTG CATACCTTAA GTACTCAATA AATGCTAGCT
CAGGGCAGAG CTTTGCATAC CCTAAGTGCT CAATAAATGC TAGCTCAGGG CAGAGCTTTG CATACCTTAA GTGCTCAATA
AATGCTAGCT CAGGGCAGAG CTTTGCATAC CCTAAGTACT CAATAAATGC TAGCTCAGGG ACAGAGCTTT GCATACCTTA
AGGTGCTC

SEQ ID NO:570: (Length of Sequence = 313 Nucleotides)

CCCTAAAGG CAGAGTGTCT TCTTACCTCC ACACAACCAC GCTAGCTCTA TAGCAGTGGT TCTTAACCAG ATTGAAATGG
CTGAAATGAC AGACATATAT TTCAGAACCT GGATGGGAAG AAAGCTCAAT GAGATAGAGG AGAAGGTGTA AACGCATCCA
AGTAAAGCAG TAAAATGATC CAAGAGTTGA AAGATGACTT AGCCATTTTA AGAAGAACC AAACAGAACT TCTGGAAATA
AAAAAAATC ACTACAGGAA TTTCATAATG CAATTGGAAG CATAAATAAC AAAATAAACC AATCTGAGGG AAA

SEQ ID NO:571: (Length of Sequence = 338 Nucleotides)

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AGGAAAGCAG GGGTCTCAAT TCTGTACGAA AGAGGAGGGT GTTTTACTTC CTGGAATTAT AGAGGCCAGA GGTGTCTCTT
 TTTCAATTIA TTGGGAAGGT TTATTTTAAT ATGGACTTAG AAATAAATAA CTTATTAAAG TGAAGGTTCA CCTGGAGCCT
 TAGGCTGGCT GCTAAGTGTG AGTCTGGGCT GTTGAAGGGA CTGINCTGTT CINCTGGGTC TCTGTAGGAG TTTGAAGGAG
 AAGACTGGCC CCAAAGGGTG TTTGAACAGG TTAGATGTGC CCATTGGTGA GAACCTACTT GGATAGGGAG AAGGGNTCTA
 GGGCGTATCC ACAAACTT

SEQ ID NO:572: (Length of Sequence = 375 Nucleotides)

CTATTTCCAG AAGTGACAGC ACAAGTCTGA GTTGCTGTTT GGTCTGGTGA CCTCAGACAC ACTAATTTGA ATTGAAAGCT
 AAGAGTAAAA ATTINCTGGT TACAGGCGAG TCATACTCTT GCAAGTAGIT AGCAAAGGGA GGCCCAAATT CTCAGGTTG
 TTGATGGGGA ACTTGCCACT AAGAGAAGGC AGAGAGGTCC CTAGTGGGTA TATTINCTGC CAAGCCACTT GCCAAGAAG
 AGGAACCACA GAAAGAGAGA CATCATGACC NGGAGAAAAA TGTGACTAGA CATGCTAACC TCCAGTINTT TATATATGAC
 TTGAGTCTGC TGTAAATGGC AGCAGAAATC CAAAATTTGT ATGGGTAGAC CACAA

SEQ ID NO:573: (Length of Sequence = 396 Nucleotides)

GAATCCCCAA AGGAGAGGAG CTAACCTATG ACTATCAGTT TGATTTTINAG GACGATCAGC ACAAGATCCC CTGCCACTGT
 GGAGCCTGGA ATTGTGGGAA ATGGATGAAC TAAGAAGCTT TGAGGCTACC AGGCAGGGGA GTCCCCCTAC CCACAANCTC
 TTCCTGAAA GNAATNGAGG GGAAGAGAG GTAGCAGCCA GAGCCAGGAC CCAGGGTTGG GGCTGCCGGC TGACCCGGAG
 CCCTGGAGC AGGAGGCTGG GGCAGAGGGC CCTAGGCCAA GCCACCCCTG GGCACCAGGG ACAATCCTCT TCCCCACCAC
 CGGCCCTCAG GCTGGCATCT CTGCCCCAG CTTCCAGGAG GGGCCAGACA GAAGCAGCCA TTTGGCATCT CAGGTT

SEQ ID NO:574: (Length of Sequence = 373 Nucleotides)

CTAAACAGAT TTAACCTCCT CCCAGCAATC CAGATTAAIT TAATATGCTT TCTTAACGGC ATTCCGCATT TINTCAITAA
 GCAATGAAC GTCCATCCT CTCTGATAAA TTAGGGCAAA AAAATTCATA TGTTTAGGGC ATAGGGGAAG AGGAGTTGTT
 GGTGTTTAA AAAAAGRAA AAAAAAGTA CCGCAATGG CGTTTCAAAG TCTAGACATC TTCATCATCA ACACAAACAT
 TCCTCTTAC AAAGGGACCT CAAGTAACCT TAGGCTGGAG GACCCACCTG CGTATGTTT TINTCTCATT CTTCTTTTAC
 CTTCCCTCCA GGCCACCCAA CCCACATTCA GTGGCCCAAG TCACGTGGGG TTT

SEQ ID NO:575: (Length of Sequence = 431 Nucleotides)

GCCCCAATTA CTTCTTTGTC TGCTACCACA ACAAGGTATA TTAGCCCTTG AAATTAAAGA TGTGCTGTC CCAGTTGTGC
 TTGCTTTCAC CTAAATGCAT ACAGTCATAT TCCAAAAGAC TATATATTAG TGATATCTAT ATAGTTCACC CTTCATATAC
 ATGAGCTCCC GTGTGTGGAG TGAACATAAT GCAGATATAA AATATTTGGG AAAAAATTC ATGTGTACTG AACATGTATA
 GACTTTTTIN CTTGTATCA TTCTCTAAAT AATACAGAAT AATAACCACT GTTTACATAG CATTACATT GGTGTAGGTA
 TTATAAATAA TCTGTACATA ATTAAACTG TACAGGAGAA TATGGCATAA GNCATATGIG GATACCACAC CATTITATAT
 CAAGTACTTG AGGCCTCTGC AGATTGTGGT G

SEQ ID NO:576: (Length of Sequence = 410 Nucleotides)

GATGCAAACA GCCCCAAGGA GGGAGGTGGA AAGGCCAAGG GGCTTGCCCT CCTGCAAGG CGCCTGTAAA CAAGTCCCCG
 TGGGGTTTTG GGAGGTGCGC CCACATCTAA GACTGTGCGC CCTGCACTCC CTCTGGATGG CTTGCCGAAT TTGGTCTTCG
 CTGATACCA ATTCTGGAAG GGTGGAGAGA CAGTTGGCTG GACAGCTGCC TGATTGGGCC ATGACCCCTC ACGGGTGTCT
 GTGGGCCAAC ACCAAACGCC AGCCTGCTCT GCTGGCAGGG CTTCTACCTG CACAGTCCCT AGGGCTGCAA GAGCAAATGG
 GGACCTGGC TNCCTGCTCT TNCAGGGCC TTGGTCAATG ACATACCAC TTTCTTAGGA CAGCGTCTTG GGGAGCTACC
 GGAATTTTCG

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SEQ ID NO:577: (Length of Sequence = 405 Nucleotides)

GAATGAAAT GGCATATTG AACATAAACT TAGGGCAGAT TTTTACTACT TTTGAAAAA TGTGAAAAA TATTCTGTA
TGAAACGTAA AACAACTTTT AATTTTTTTT AGAAGTTGAG AGGATTCTAT TTTGCAAAGC TGTATTATGA AGCTAAAGAA
TATGATCTTG CTAAAAAGTA AGTACAAACT GTAACATGTA TTCTTTTTTT AAAATCAATG CCTTINCTCA TTINCTTCTT
TGAAATAGGT AAAAATATGT CCTTAGTAGT TCTTCTAAG TGTATTCTGG AATAAGGGAT TTATCACTCA GACTGATGCT
AAGGACCAGC CTAGATTCCA TTGAGATTGA AACCGTAATT AGTGTTTTCT GCATGCTGCT GCTTTATACC AAGGGCAAGA
AATTG

SEQ ID NO:578: (Length of Sequence = 406 Nucleotides)

CGCTACAGGG GGGCCCTGAG GCACTGCAGA AAGTGGGCT GAGCCTCGAG GATGACGGTG CTGCAGGAAC CGTCCAGGC
TGCTATATGG CAAGCACTAA ACCACTATGC TTACCGAGAT GCGGTTTTCC TCGCAGAACG CCTTTATGCA GAAGTACACT
CAGAAGAAGC CTGTGTTTTA CTGGCAACCT GTTATTACCG CTCAGGAAAG GCATATAAAG CATATAGACT CTTGAAAGGA
CACAGITGTA CTACACCGCA ATGCAAAATAC CTGCTTGCAA AATGTTGTTT TGATCTCAGC AAGCTTCAG AAGGGGAACA
AATCTTATCT GGTGGAGTGT TTAATAAGCA GAAAAGCCAT GATGATATTG TTAGTGAGTT TGGTGATTCA GCTTGCTTTA
CTCTTT

SEQ ID NO:579: (Length of Sequence = 374 Nucleotides)

GTGGGCCCTG CTGAGAGTCC ACATTCGTAA ATATTATGCT GCAGTAAATA TTAATCTGA GAACTAGGTG ATATGGTTTG
GCTGTGGCCC ACTCAAATCT CATCTTGAAT TGTAGTTCCT ATAATCCCCA CATATCATGG GAGTAACCTG ATGGGAGGAA
ACTGAATCAT AGGGCAGTGA TTCTATGCT GTCCCATATA TAGTGAGTTT TCACTATATC TGCTGGTTTT ATAAGGGGCT
TTCGCCCCIN CCTTGCTCT GCATTTCTCT TTCGGCCAT TATGAGAGGA AGGACATGTT TGCTTCCCT TCTGCCATGA
TTGTAAGTTT CCTGAGGCCT CTGAGCCAT GCTGAAGTGT GGAATTTAAT TAAA

SEQ ID NO:580: (Length of Sequence = 396 Nucleotides)

CAGAATAAAC ATTTACTATT AGGAGAGTCA AATCATTTAT TTTCACATGA AAGAGATTAA GTAAAGCAGA ATCTTTGATG
GTCTGCTGTG AATCTTCCG AGTGATTGAG AAATTCTGA AAACCACCTC CAAATCAATT ATAATATTAA GTAAACTTTG
GCTTTAGGAG TAAGAGAGAG AAGGTCTGCG TCCATGTTGG GAAAGAATAG ATATGCCAC AATAATTAGT CTAATTACTG
TTTGAAAAGG GTGATTTCTT CGTCATTCA AAGTATTAG CAAATAAGGA CATATTGAGT ATGTAATTCA TGGAAAANTA
AGNACTTCT TACAGTATGA TTCTAAAGG ATTATGGATG CCATTATCCA TTTTGGAGTT GGTATTGAAG CTTATC

SEQ ID NO:581: (Length of Sequence = 449 Nucleotides)

CTGCTCCGTG GCTGTTTCAA AGACTGGGCG AAAGGCTGTC CGGAGGGCAG ACCAGGTGCC TTGCCGAGA GAAACACCA
NAGTCTCCTG TTGCTCATA AAGAAGTTT TGGGATGGGA GAGAATCCAG ACCATCTTGG GGCAGCCANG CCTTGCCCT
CATTTTACA GAGGTAGCAC AATTGATTCC AACACAAAC TCCTTCCCT TTTTAAATG ATTTCTGTT TAATGCCATA
GATCAAAGGC CTCAGAAACC ATTGTGTGTT TCCTCTTTGA AGCAATGACA AGCACTTTAC TTTACGGTG GTTTTGTGTT
TINCTATTG CTGTGGAACC TCTTTGGAG GACGTAAAG GCGTGTTTTA CTGTTTTTT TAAGAGTGTG TGATGTGTGT
TTGTAGGAT TCTTGACAGT GCTGTAATAC AGACGGCAAT GCAATAGCC

SEQ ID NO:582: (Length of Sequence = 261 Nucleotides)

CCAGCAGGTC GTACTTGAG TGGCAGGGTC CCGACAGGG CCGCTCAGT GTGCTGAGCT TGGTGGCGG CACTGGCCTG
GACAGTGGCA TGACCGAGG GAAGTGGCG CCGAGGGCC TCAGGGGCT GAGCACTCC TTGCAGAGG GCGGGAACGG

GTNCTGCTGG TAGTGGCCAA ANACCTCGAA AACAATGGGC TNGCTCTTGA TGTACAGGTG GCGTTTATTT TCATGGATTT
ATACACACTG GAAAAGCCTC T

SEQ ID NO:583: (Length of Sequence = 399 Nucleotides)

CCCAGGCCAC CATTTAAAGC AGCCATTCCCT GCCAAAGAGC CAACATTGAG GCCAGCCGTT GCTCCAGCTA ATGTCTGCAG
GGCTCCAAGT GAGGCTATGG GGTGACAGA ATTACTGCTG CTAGAGCTAG GTGAGGACCC TGAAGTAGTG AGCAAGCTGA
GGGACTGCT GGATGTAGTG AGAGCATTGG TACCACTTGG TGTGTTCTGA NNTGCACTAG CTGCAGCAGC TAGTGCAGCN
AAATTCTGTA ACTGCATTGC ATTCAACCTT CCCATTGGGT GGAGGCTGCT CAGGGTGTG AGGTTCCAG AGGAGGCAGT
CTGCTGAAGG AGTGCTAAAT ACTNGGGTCC AAGAGTATTT AGACCAGCAA GGTTCCTCCA CACAGATGCT GCGCTGATT

SEQ ID NO:584: (Length of Sequence = 441 Nucleotides)

GTTGTTTTTA AGGATTAAAT GAGATATTAC ATGTAATGTG CTCATCCCAG TGCCAGCAC ACAAGAAATG TTCAATAAAA
TAGGAGGCAT AATTGTCCTG TTTGAATACT AGATAACCTT TTTAATGGAT ATTCTACAAT TATGAATCTA AGGTGCTTTG
GAGGAGCCTA GGCAATCTAT TCCAAAATTA AATGTAAGGA AGGTACATGA GTAAGGGATG GAGTAGGCCC TGGACCAACA
CTAGAGCTCC AAATTTCTTA AAAAGCTTGA GCTTCTTTTA CTGTGGCCAC GCCTATAATG GGAATAAATC TGGTCTTCA
AACAGTCCCT CCCCTCTCTA AGCTCTGCTG GGGAGTAGAG ACATCAGCAG GCTGGTTCCTG TGNITAGCTC CTCCCCATCT
TNGACTCTCA TCCCATTCCC TCTTTCCTAC TACCCATTCA G

SEQ ID NO:585: (Length of Sequence = 326 Nucleotides)

GAAATGCAGG TTCAGCTATT TNCCTCTGTC AGAGTCCAGT TAACAAAAGT GAGTNCCTGT ATAAAGAAAG TNATTTTTTT
TTTTTAAATT ATTCCAAAGC TAGCTGAGGG GAACAAGTAC AGGCTTCTG CCTAGGGGTA TCACTTTGCT TTTGGAGCAG
GAAGTAAGCA CTTTTAAAGG GGGCTTAACA TGAATGGCAC ATGGGGTCCG GGAAGTAAG CAAGTGCAGC ATCTACATGT
TAGTTTGGTA CCTTATCTAC TAGGTAGTCA AGGTGGTGAC TGCTGTGTC TTTGTGGGGC ATGTGTACTT TGGGGTTGTA
AATTGG

SEQ ID NO:586: (Length of Sequence = 431 Nucleotides)

GAAAGAGGA AAAGCATCAA AACCTACAGA GAAATINTTC AAGAAAAGA GCGGAGAGAG AGAGAGCTGC ATGAAGCATA
TAAGANCGCT CGGTCCCAGG AGGAGGCAGA GGGATCCTT CAACAGTACA TTGAGAGGTT CACCATCAGT GAGGCTGTTT
TCGAACGCTT GGAGATGCCA AAAATTCTGG AAAGAAGCCA TTCAACAGAG CCAAATTAT CTTCTTCTT GAATGACCCC
AATCCCATGA AATACCTGCG GCAACAGTCA CTGCCTCCAC CCAAATTAC TGCCACTGTT GAAACCACCA TTGCTCGTGC
CAGTNTCTG GGATACCAGC ATGTCAAGCA GGCAAGTGGG GTCTNCAAGC AAAACTTGT ACTTCCCAA AGCAAGTGCC
TATGCTTGAC ANCCCAGGCC TTACTTCCCA G

SEQ ID NO:587: (Length of Sequence = 338 Nucleotides)

CTCAAGCAAT TCTCCACCT CAGCTCCCA AATAGCTGGG ATCACTGGCA CAAACCACCA TGCCAGCTA ATTTTGTATT
TTTTGTAGAG ACAGGTTTC ACCATGTCG CCAGGCTGGT CTCAACCTCC TGGGCTCAAG CAATCCTCCT GCTCGGCTT
CCCAAAGTGC TGGGATTACA GATGTGAGCC ACCGCATCCA GCCCCACACC CTCATTTATA CCAATTACCT CCCCAGTAAC
TGTGGACTTT TGCTTCTCA CCCCTGCTCT GATCTGGAAG GAGAGGGAAT ATGTATATAG TTGTCAGCAC AGTCCCAAAG
TTCAATATTT CTGCGGGC

SEQ ID NO:588: (Length of Sequence = 277 Nucleotides)

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AAGAACATTT AAGTAGTTCA TACAAAGAAA TATAAATGT NCTTAAATAT ATCAAAATAT ACTCACCTCA TTCATAGTAA
AAGAAATAAA AAAGTGTGCT CTGATGACAT TTTTCATCTA TGAGATTTAC AAAGNTCTAA AAATGAGAA TATACATTC
CTATGCGCTT TGGATGGCAA TTTGGCAGTA ACTATCAAAA GTATAAATAT CTATACCCTT TGAGGTGTCA ATCTCATTTT
AAAGAATTTA TTCTTCAGCT ATGTACATAC ATGTAGG

SEQ ID NO:589: (Length of Sequence = 353 Nucleotides)

GTAATGAATT ATAAGAATCT GAATTGAGAG CTAAAATATC TGGGTGTAG GCCTACTCTG CCACGNTTTT NITATTTGCA
AATATTAGAG CTGAAGTAGA TGACCTCAA GGTCTTAACC AACTCCAAA CCTACAATTC AATGGCTGAC TGATATACAT
TGTATACTCT TTA AAAACAA TTA AATCAA AGANGNTAAT AAATGTGTCA TGTATTATAC AACTATTATA CACGTGTGTG
TGTATATATA TATAINTVIN CACAGAGAGG AAAGACATCT ATACATAGNC ATAACCATCA AATCAGTCAG AATTTCCATC
AGACACTTIN CATTTCCAG GTCCATCAGA TGG

SEQ ID NO:590: (Length of Sequence = 364 Nucleotides)

CTCATATACA TAAAAAGTGA TAAGAATCCG AAAAGACAGC CAGGGGAATT AAATGCCAGT TGGGGCCAAC GGGGCCCTGA
TCACGGAAGA GGGCGCCCC AGCTCTCAAT CTTCACACAA TCCCTGSCACC CAGGGTCACA GAGCATGCGC AGGTCTCTCC
CGCCACTTC CGGGGCAACT GCCAACCACC GCGCAGGCTG AGCCCCAGGC AGGAAGCAGC CCACTTGGTG GGGTGGGGT
ATGAGTCCCT CCTCGGGGG GCTCGGTGGG TCTGAGTAT TCTTTGGCCG GATTINCTGA TCCGTCTGCT CCAGGTGAGC
TNGGAAGGC CCCAGGAAAA GGCCANAAG GGCTTTGCC AGGG

SEQ ID NO:591: (Length of Sequence = 311 Nucleotides)

GAAAGGGGAA TAGGGAGTTA ACGTTAATC AATAGAGTTT GGAAGATGA AAACGTTCTA GAGATGAGTG GTGGTGATGC
CACATAACAA TGTGAGGGTA CTTAATACCA CTGAAGTGA TGTTTAAAT GGCAAAAAGG GTAAATTTTA TGTATGTAT
ATTTTACCAG AATTTTTTTT TTAAGCTTA CTGATGGGG ACCAAGCGTG GTGGCTCACA CCTGTAATCC CAGCACTTG
GGAGCCNAG GCGGGTGGGT CACTTGAGGT CAGGAGTTCG AGACCAGCCT AGCCAACATG TTGAAACCCC G

SEQ ID NO:592: (Length of Sequence = 358 Nucleotides)

ATTTTGGTTT CTACCCATCA TCCTCTCTC AAAGGAACCA GGGTCTTG GGGATTTGGC TGATGCCAGG GGATGGAGAG
TGTAGTTGG NTCGAAGGG GAGGCTCGCA GCATGTGTG GGCAGGTCAG ACAGACCCAA GAGCCAGCTT GGTGGGGCAT
CCCTGGCTAC CCTGGGGACA CAGTGAGCGC CGAATAAAT AACATCAGGA ATGNTCACA ACGCAATGAG TAAGGGGAAT
CTGAGTCTAT AGGGATACAG ACCCAGAGGT AAATNGCCAT GGCCACCCAC TTTCTACAG GAGAATGTGA CTAGTTGAGC
GTAGGAACAT GGAACAAAT GGTAGAGGT GCTGACAT

SEQ ID NO:593: (Length of Sequence = 354 Nucleotides)

GACAGACTGA AGGAATATAT GCAGCTAAT TTAACATTTT TTGAAATTT ATATTGCAGA AGTTGTACAT ATTINCTGTT
GTGAAATTAG AAAGANTGA CAGGCAAGGA GGGTGGTCTA CAAAGCACTC CATAGATCCA CCATACTGAG ACAATGCTTA
ATGCTTTGAT GGATTTATTT ATTINATACT TTCTATGCAT ATGCATGTAT TGTATAAATA CGNATGCATG GTTAAATAGA
AATGGTCTC CTGGGTGTTG TGTATTATCCA TTTATGTGTG TGAAGTAAAT CCCCAAGAG GTAGGTTTGC TTTTGCCTGA
GGAGTCTTT GCTACATACT GGCTGTACAT AATG

SEQ ID NO:594: (Length of Sequence = 319 Nucleotides)

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GAACATGGCC GTGAACTGCT CGGAGATGCG CTTGAACAGC TCCTGGATGG CCGTGTCTGT CCGATGAAG GTGGAGGACA
 TCTTGAGGCC GCGGGGCGGG ATGTACACACA CGGCCACCTT CACGTTGTGT GGGATCCACT CCACGAAGTA GCTGCTGTTC
 TTGCTCTGGA TGGCCAGCAT CTGCTCGTCC ACCTCCITCA TGGACATGCG GCGCCGGAAC ACGGTGGCCA CCGTCAAGTA
 CGGCGCGTGG CGCGGGTCC AGGCGGCCAT CATGTTCTTG GCATCGAACA TCTGCTTGGG TGAGCTCGGG CACGGTCAA

SEQ ID NO:595: (Length of Sequence = 370 Nucleotides)

GAAGAATANA AAGAAAAATC CAAAATGAAG AGTATTATAC AAGACAACATA GTCAATAGTC TTCAAAGTGT CAAGGTCATG
 AAAAAATTGAG GAAGCATCCC AGACTGAAGG GGAATAAAGA AAAGTGACAA CTAAATGTAA TGGGTGATTC TGGATTAGAT
 CCTGGAATTG AAAAAGAACA TTCATGGAAC AACTGACAAA TTGAATAAG GTCTGTAGAT CAGTAACAGT ATTGCATCAG
 TGTTAATCTC CTGGTTTAGA TCATGTCCTA ATGGAAATGT TTTGTACTAT TTTTGTGGA CTCTTAAGGA ATGTGGGTGG
 AGGACACGGA TGAGACCTAC TTGCATCGAC AACAAGGCGT TCTACGGACA

SEQ ID NO:596: (Length of Sequence = 335 Nucleotides)

CCACAGAGCC CCAACTCCCC CCACAGGAGC CAGCTCCCC TCGAAGGCCT GGAGCAGCCG GCCTGTGACA CCTGAAGCCG
 CCAGCTCGCC ACAGGGGCCA GGGAGCTGGA GATGGCCTCC AGCGTCAGTG CCAAGACTGA GCGGGCCCTC CAGTGTGTTC
 CAAGGAAATG TAGAATCACT TTGTAGATAT GGAGATGAAG AAGACAAATC TTTATTATAA TATTGATCAG TTTTATGCCG
 CATTGTTCGT GGCAGTAGAC CACATCTGTT CGTCTGCACA GCTGTGAGGC GATGCTGTTC CATCTGCACA TGAAGGACCC
 CCCATACAAG CCTGT

SEQ ID NO:597: (Length of Sequence = 336 Nucleotides)

CTCCTGAACA TCACAACTT GGTTTCTACC TACCACACGA GTAGCCAAAA GAAAAGAAGC ACTAATAGAG AAAGGGTGT
 CTCACACCAG ACAGAGGACC TCTGCTGTCA ATTAGATCCA GTATCATGAC CTAACITTAAG GTGTGGAAAA GAGTTCAGAT
 CTCTGAGACA CTGTGAAGAA ATGGATGGCT CATGTAACAT CTCTGATCCC TCAGTCCCA ACCCTGGAGC TGTTTCATTT
 ACAACATTCA TAGGAGTTAA CTAGCAGTG TTGCAAGTAA AGGTTCNCAA CCAATTATT TAATCAGTGT CCCCCAATA
 AAATCACTTA TCCCATTTTA TTGCTAGTTT AGTTT

SEQ ID NO:598: (Length of Sequence = 402 Nucleotides)

ACCACTACAC AATATATCTA TGTAAACAAA CTGCATTCTT ACCCCTTAAA TTCATACAAA TAAAAAAAT TAAAAATAA
 ATAAAGTAGG ACAATCCCC AGATAAATAA ATTAATAAAT AAATAAATAA ATAAATAAAT AAATAACTTT AGCTCTTGCC
 TTCTCCTACA CATAAGTTAA TGCTGATGG GGTAGTGGT TATGCTTCTG TAAACTATAA TCAGATGTAC TCTTGACCCC
 AAACITAGAT GCGATTTTNC GTATACTGGA ATCTTTGCTA CCTGTATATA AACTGTGGAA CTGAAAATGC TGCAITGGGA
 GCAGTCTGAT AGGNTCTGTC CTAAAGGCT ACTCTGAGG GCTCTAGGG CTTCACTCTA CAGGCCCCCA GGGAGGACTG
 CT

SEQ ID NO:599: (Length of Sequence = 369 Nucleotides)

CTCAACAAAG TTTGGATTTT NTCCACGATG ACTCCTTGGG TGAATTTTAA ATCAAGTTAT TTCAACCATT TTNCTCATAT
 ATTTCTGTGA TCCCTATTCT GGTATTCACT GAATACATGG GAGAGGTATG TNATTCTCAG CTCOCACAGC CCATAAGTCG
 GGAACACCAG ACTTCATTCC CCTCTGCTCT AACTCAGACT GTGAGGTATG TGAGGGCAAG ACTGATGAAT TGTCTCTCTT
 CCTATCACTG GTGCCAAGCA CAGTAGTTGG CATAAGAAG TTAATCAATA AAGAGGGGT GAATTTAATG AAAGACAGAG
 GAAGGNGGGA CCTGGGGGAA GAGGTGGGCA TAAAGTGAAG GTACAAACA

SEQ ID NO:600: (Length of Sequence = 342 Nucleotides)

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CCGCTCCTG GGTTCAGCA ATTCTCTGC CTCAGCTCC CGAGTAGCTG GGAATACAGG CGTGCGCTCC ACCACCACGC
 CCGGCTAATT TTGTATTTT NAGTAAAGAT GGGGTTCCTC CATGTTGGCC AGGCTGGTCT TGAATCCTG ACCTCAGGTC
 ATCCGCCCCC CTGGCCCTCC CAAAGTCTG GGAATACAGG CGTGAGCACN CGCACCCGGC CAGCTGCTTC TATTTTAATC
 TGAATCTGGA AACACCTTCC TACTTTAAGG CACAGGATCA GGGTAAGAAC CCACATGTAC GAGCTAACAG AGCTGCACCT
 CAAATTTACT TAAGTTAATT AA

SEQ ID NO:601: (Length of Sequence = 319 Nucleotides)

AGTACTATTC TGCCATAAAA AAAAGAAATGA GATCCTATCA CTTCGAACAT CTGGATGGA ACTGGAGGTC ATTATGTTAA
 GTGAAATAAG TCAGGCACAG AAAGAAAAAC TTTCATATTT CTCACTCATT TGTGAGAACT GAAAATTAAA ACAATTGANC
 TCACGGAAAT AGAGAGTATA ATGATGGTTT CCAGAGACTG GGAAGGTAT TGGGTGGGG GCAGGGAATG GGAAGGTATA
 ATAAGTACAA TGCAATGAAT ACGATCTNGT ATTTTACAGC ACAAAGGGT GGCTATGGTC AACAATAATT TATAGTACA

SEQ ID NO:602: (Length of Sequence = 334 Nucleotides)

CACCCACAGA CTGCCAAGTG GGACAACCTT CTGGCTTTTG AAAGGCTCCT TCTTCAGAGC ATTGGGGAGT CAGCAATGTC
 CGTTGTGTTA AATCAGCTGC TGCCCATGAT TAAGCTGTGA ACCCAGAGAA CCAACGAGGA CTACAGCCCT GAGGAACGTC
 TGATCCTTCT CATATATATT TATNCTGTCA CTGGAGAGCT CACGGTAGAC AAAGACCTGT GTGAAGCAGA AGAAAAAGTC
 AAGAAAGCAT TGGCTCAGGT CTCTGTGAG GAATCTGGAT TGTACCTTT GCTGCAAAA ATTACGGACT GGGGACTCTT
 CAATTAATCT GACA

SEQ ID NO:603: (Length of Sequence = 410 Nucleotides)

TTTACCATTG TTAGCCAGGA TGGTCTGAT CTCTGACCT TGTATCCGC CTGCTCGGC CTCCCAAAGT GCTGTATTAA
 CAGGCGTGAG CACCGCGGC CAGCCAGGAT TATTATTTTT TAAATCAGAG AACTGAGTA CCACCTAAG GGAATTAAT
 TATGCAATTG GAATGAACT AAAGTGAAT GAACATTTAG TTCACTTAG ATTTTATTTT TCCTGCCAAC TGTATATGA
 GAGTTTGAGA GGGAGCCAG ATTAGACTTA GAGAAAAATA AATAAATAC ATTTTATCTG CACACATGAA TTCTAGAGTG
 AGTTAAATTT ACCACAGCGG GGCATATATA TGTATATATA TGATACCNIG TTTTATATA GCTCCNTATA GTTTTAAAG
 CACTTGTAC

SEQ ID NO:604: (Length of Sequence = 399 Nucleotides)

TCTCTAAGCA AAAAGAAAT GATGAAAGAA GCAACTTGG AGCATCAGAA AGGAAGAAAG AACATGATAA AATGAAATA
 TGAGCTCCTA TTATGAACAT CGTATTACCA TTCATTGTGA AACTTAATCG TATATTTATA TATAAGCATC CTTCAGAGAT
 GCTGTGGGT CAGTTTCAGN CCACTACAAT AAAGTGAATA TAGCAATAAA GCAACTCATA TGAATTTTTT GGTTCCTCAG
 TGCAATATAA ATTAANCCTC ATGCTATACT GTAGTCATTT AAGCATGCAA TAGCATATG TCTAAAAANT GTACATACCT
 TTATTTAAAA ACGCTTTTAT TGCTTAAAN AGGCTAAATG GGCATCTGA GGCATCGCT TTTTCTCGG CAGAGGGG

SEQ ID NO:605: (Length of Sequence = 372 Nucleotides)

ATGCCCTAGA AATCCTACCA CCTCCAGAA ATGATAGTTA TGGAATTAAT CATGGCATGT CAGATATGGT TCGCTGATGC
 CTGCTTTAG TTCTCAGAAA TAAGGCTTTA AAAGACTGGC ATGTTTCAGG ATTGCTGTCA GGAAATGATA ATTAAAAATA
 CCAAGAGTA CACTAAGAAT TATGGAAGCA TCTGTGAAAC TAATAAGCCA GTGGACATAC TGAATTTTAC CAATGTGTCT
 ACATACTATA TTAATAAACT TCCTACAAAG TATTGTCCCA ATTCAGTTCA TCTGAGGATG TGAAACACT ACAGTGTACC
 TTAAACATC ACATTCACAA CCTGACAGA CTGAAATAAA ATGAAATTAG GG

SEQ ID NO:606: (Length of Sequence = 399 Nucleotides)

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TGCCTTCCTT TCITCAATTC GAGACAGCAG TATCATTAGT GTGTATAGG TTATAATTAA ATCTAAGTAG TTCTTTGITA
AATCAAAGTT TACAGTAATA TCAAAGAAGA CTTGGCAAAC GTCAATAGTA TTCAGCAATT CACAAACATG GTCCTTAAAT
TCCATAACAT CTACAAATGT GAAGTAATAT AATGCCAGAT TTINCAGAAT CTCTGATTTT CCTTTCTGTA GTTGTGCAAG
CTGTGTATG TTGTTGCGGG TTTCTACAGC AGGGAATTT CTGACTATGA ATTTACAGC AGATTCCAGG NTTTTGTCGA
TAAGATAGGA TGGNTTGGC NTGGGNCCT CACATGCCNT TCTTGATGTT GTAGAGGCGG GTGAGCATGC CGACGGCCC

SEQ ID NO:607: (Length of Sequence = 412 Nucleotides)

CTGTACCCCTT ATAAAGAGTG AAAGCCCTGC CCCCTTCTCC TATAGAACCC CTAGCAAGGA GACTGGAAGA NTCAAAAACA
ATCCACCCAA AAAATGGCCT GCAGGGACAC AGTCCAGAG AAAGAGACTA TGTACAACAA GGTACAGTAA GTAAGACCTG
CCCACACACA GGACTTCCAA TCGACTTCTT AGTGCTTACT CCTACAGATG AACAGATCAA CCAGGGCCAC CAGATGCTCC
AGGAAAGACA GGAGTCCAAA AAGAAAATTC GGTAAAGTTG AATATATTTT GAGCAAATTT TCAGTTCTGT TGAAGTATTG
GGGGGACATT CAACAGTGAG TAGTAGTTTA GGGGGAACAG CTGGCACCTC TGGCAGTCGC CTCAGAGGTC AANCCAGCGT
NTAGGTTGCT TT

SEQ ID NO:608: (Length of Sequence = 419 Nucleotides)

ATGAAGGCAG CTGAACCTC CATCAAGTTT CTGCTCCCC AACGTAATAT GGAAGTCGTT CTGGCTGTAG GACCCAGCT
GATTGGAATT GGAAAGCACA GTGCAGCTGC AGAGCTCTAT CTGAATCTGG ACCTTGTCAA GGAAGCAATC GATGCTTTCA
TCGAGGGTGA GGAGTGAAC AAGGCGAAGG TTGTAGCTAA GGAGTTAGAT CCCAGGTATG AAGACTATGT GGACCAGCAT
TATAAAGAGT TCCTCAAGAA TCAGGGCAAA GTGGACTCGC TGGTGGGTGT GGATGTGATA GCTGCTTTGG ACCTGTATGT
GGAGCAGGGC CAGTGGGGAC AAGTGCATTG AACAGCTAC CAAGCAGAAC TACAAGATTC TGCACAAGTA TGTGGCTTTG
TATGCAACTC ACTTGATCC

SEQ ID NO:609: (Length of Sequence = 337 Nucleotides)

GGTGAAGTT GTAGTAGCC GAGATCATGC CACTGCATC CAGGTTGGGT GACAGAGAGA GGCTCCATCT CATAAAAAA
GAAAGAAAA AGCATTTCTG AAAGGAATAA AAAACAAATT GATAACATCC CCTAATCTCT AGTTGTTGGG ATGTAGTATC
CTTCATTGTA TCAGGAAATC ATATGATTGT CCTTAAATTA TTAAGTTGGC AGAATTTGTG TGGTTTCATA ATGATGCTTG
TAAGATGATA TTNTAATGGA AATGTTTAG ACTATATCTN TTGTNGTTTT TNCTGCTGTA TTTGTGTAAG GCTTAAANCT
ACCCCTTTA AAAACAG

SEQ ID NO:610: (Length of Sequence = 441 Nucleotides)

TAAGCCAGAG ACATTTCACT GTATTAATCT TGATACTAAT TACTAAGGCT TTTCTGTGGA CATTAAATTT GATCTGTTTA
ATTGCAAATA CAATAAAGT CGTGATTAT GCTTAATGTT TCTGCTAGGC TGATGACATT TTGAAAATGG CACTTATAGC
CTGGTTTGTG TTGGTTACAA CTTTGTGGC TCCAGATGCT AAAAAAATC TAATTGAGTA AGTAAATAAT GCAGCTAAGC
GTGCTCTCT CGCTTCGAA AAGTTTTC TACTCCTTT TCTCCCTGGA GAGGCCCTGC TGCACACTGA TGCTGATCTA
AGGAAATGCC TTTGCTTCTT TGCCACTGAG CAATGTTAGA ATCACTAGGA GGGCAGGGCT ATCCCACTGG TCACTCTGTC
CCAGCATATC TACCATGAAG TCAGCAGGGA CTACAACTC C

SEQ ID NO:611: (Length of Sequence = 344 Nucleotides)

TTTGGTACAG TAATTAGGTT TGGTTGATTC GGTATGCGG GTATACCGC ACATGCAAAC ACACACAGGG TGTGCGTGTG
TGTATATAAG GGCATATACA CATGCACACA TATACACATA TGTATATAG GATGTGTGTA TATGTGTGTA TATATATAGG
GTGTGTATGT ATCCTATATA TGCCATATA CATGTATATG TNGTATATAT ACATGTATAT GTACACATGT GTGCATATGT

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GTACATATAT GTGTATATAT GTATATATCC CACATCTCCA ATTTCCTAT ACGTATATAC ACACATATAT GTTATATAGG
GTGTACAGAT ATAGGATATG TGIG

SEQ ID NO:612: (Length of Sequence = 384 Nucleotides)

TGATGACCAT AAGCCCATGC TTTTCATAGA TGTTTAAGGG TTAATGAGG TAATGCATGT CGAGTGCTCA GCCAACTGAG
ATTGAGGAAG CGCTCAATAG ATGCTGGCTG TCATTATTAA CTGAGTAAGT AATCCTTTTC CCACAGAAGC AGTAGAAGGC
TGACGATGTG TGIGAAAAGG ATGGATACAA TTCCCTGGGC CACAAATAAA GGTTTTTTTG GTGTGTGTG TTGTTTAAAT
GAACTGAAAT GAGTTTGAGA GATTCATATA TTATTTTACA ATACTTCTTA ATGCTAGTTT AAAAGTTCA ACATGTGTCAT
TCTACTCCAC TTCCGTATGA GATAAGTATA TGAGGGNGCT TAATCCCCG NTAACTAAG CAAG

SEQ ID NO:613: (Length of Sequence = 342 Nucleotides)

TATTTATTTT TGIGGGTGTG GACTTCCTAT GTGGGCTTTT TGGGTGACAC TCCCTTAAGG GTTCAGTTTG ACAATTCTNA
GAGTTGTCTT GCAGTTGGAG GCCACCAGAG GTATCTAAGC TCCTGCTTC CTATTINATA ATCCTCCAGC CCCAGCAGGT
CCACTCCTGG TTCTGTGTG TTTGGCCCGG GCACAATCCC CACTGCTTTG CTAGACGTGC TTCTGCCAT GTGGCTTTGG
GCCTAGAGCT TGTTGATAAT TGCAGCTTGT GGCAGTGGAA ATATGGCTGA ATGAGCGTCT AAACCCCTGG GTNGGGGGNC
TNAANTNCNN GGGTTTTTAA AA

SEQ ID NO:614: (Length of Sequence = 393 Nucleotides)

CAGTGTTATT AACATAGCC AGGAGGTGGA AGCCACCTAA ATGTCCATCA ACAGATGGAT GGATAAATGA AATGTGGTCT
ATACATACAA TGGAATATTA TTCAGCTTAA AAAAAGGAGC AAATCCTGCC ATGTGCTACA ACGTGGATGA ACCTTGAGGA
TGTTTTGCTA AGTGACATAA GCCAGTCACA AAAAGACAAA CGCTGCATGA TTCCATTTAT ATGAGGAATC TAAAGTAGTC
AAACTCTTAG AAAGTAGAAT AGTGGTTAGC AGGGTTAGG GGGAGGGGAA AAAGAAAAGT TACTGTTTAA TGGCTATAGA
GTTTCAGATA TGCAATACGN NAATTTCTGG GGGATTCTTT TGCACCACCA ATGTGCACCG TATAATTCCA CTT

SEQ ID NO:615: (Length of Sequence = 310 Nucleotides)

ATTATATACA TTCCTTACT GATTTTTTAA AATGTGTCA ATATCTTCAG TGAATCTTA ACAATCTGGG GAACTGTTTT
CCCAATTAC CACTTCAGCA ACGTTCATAC GAAATCAAGG CTGCGCTTCA TGTGAGTGT AGGTCAACT TTAACTCGAA
GGTTGTGTT TGTCTCTAAC ATCTTCAGAG TGAGCTTTAG GGATGCCTGA AGGATGGACA GTACAAGCAA GCAGCTACTT
CCATGATACA GTGGGAAGAT AAAAAGGCC ATTCACTCCA GCGTGACCT GTAAATCCAG CTGCGCTCC

SEQ ID NO:616: (Length of Sequence = 266 Nucleotides)

GAGATGGAGT CTCGCTCTAT CACCCAGGCT GGAGTTCAGT GGCACGATCT CGACTCACTG CAAGCNCCGC CCCCAGGTT
CAGCCCATIN TCCTGCTCA NCCCTCTGAG CAGCTGGGAC TACTGGTGCC CACCACCACT CCCAGCTAAT TTTTNTAAT
TTTGGTAGAG ACGGGGTTT ACGGTGTAG CCAGGATGGT CTGATCTCC TGACCTCGTG ATCCACCCGC NTGGGGCTCC
CAAAGTGCTG GGATTACGAG CGTAAG

SEQ ID NO:617: (Length of Sequence = 376 Nucleotides)

ATAATAATGA AAAGTGAAGG GTGGGGGTGC TGGCCACCTC CCATTTCTTT GCCTGGGTGG TGGTGACCAC GCGGCCCTTG
TGCTCTTTCC ATTGGTACT GAGGACCAIT GCCCTCATGG GCCCAGGCCA CAGGCACCCA CTGTINAGCC TCACCTGCCA
CCTCTCTCCA TGTTGGCTTN TTGCCCCG GCTGGCCTG GGCATGGGGG AGCTTATNTC CCCGACCAGG GGTCTGGCCA
TGINTCCTTC ACAANCCCCA CTCCCCGGG ACTGAGCCTC CACTCTCTGC TGGGCTGAGG GCTCTGTGTT NGCCAGGAG
CCCTCCAGC CACGTGCCAG CCCATCCCAT CATCAGCACT TGGTTTTAAG CTTCAA

SEQ ID NO:618: (Length of Sequence = 352 Nucleotides)

GCCCCATCCTG GCTAACACGG TGAACCCCGT CTCTACTAAA AATACAAAAA ATTAGCCAGG CGTGGTGGCG GGTGCTGTGA
GTCCACAGTA CTTGGGAGGC TGAGGCAGGA GAATGGCATG AACCCGGGAG GTGGAGCTTG CAATGAGCCA AGACTGCGCC
ACTGCACTCC AGCATGGGCG ACGGAGCAAG ACTCTGTCTC AAAAAAATAA TAATAATAAT AAAATAAAAA GTTTGTTAGT
ATTAGCAGAT ACATATTACT AGGTACCCCC CATGCTCAAT GAAGTGTGG GNTACTCTNA AAAAGTGTCC AATCTTACAG
GTGTGACTTC CTCTGGAAC TCAAATTCTT TT

SEQ ID NO:619: (Length of Sequence = 359 Nucleotides)

AAAAAAAACG ACCCCCACAA GGGGGAAGGC CCCAAGTGGG CCCTGCCTG TNGTNCCTC TGGCTCCAGA GATGTCTGCA
TAGGCCTCAG CTTCTACTG GCCAATCTCC TCTTCATGG CACCAGCCAC TGCTAAACAT CCTTCCTCA CTTCTGTGT
AAGCTGTCTC CCCTGAGCCA CAGGTTGCAC ATCTAAACCT CAGCTCCAGG GAAAGGAAGA ACCAATGGAA GTGCCAGAGT
CCTGGGGCAA GCCAGAGCAT CACCTGTCTG CAAACCTCTG CTGGGCATC TAAGCAAGCA CAGGACAAGN CCCAGAGTTT
AGTGTGTCCA GTATCCAGCA TGGGACAGC ACATGCAIT

SEQ ID NO:620: (Length of Sequence = 447 Nucleotides)

CTCTCTCAGC ACAGCCTGGG GAGGGGGTCA TTGTCTCCT CGTCCATCAG GGATCTCAGA GGCTCAGAGA CTGCAAGCTG
CTTGCCCAAG TCACACAGCT AGTGAAGACC AGAGCAGTTT CATCTGGTGTG TGACTCTAAG CTCAGTGCTC TCTCCACTAC
CCCACACCAG CCTTGGTGCC ACCAAAAGTG CTCCCCAAA GGAAGGAGAA TGGCAGCCTC CACATCTCGG GTTCAAGTGA
TTATCCTGCC TCAGCCTCCA AGTAGCTGGG ATTGCAGGTG TGCACCACCA TGCTGGGAT AATTTTGTGT ATTTTAAAG
TAGGACACGG TTTCACCATG TTTGGCCAGG CTGGTCTTG AACTTCTGA GGGTAAATG ATCTTNCCTC ACCTTNTGCC
TTCCCAAGTG CTTGGGATTT ACAAGGTTTT AAGCCACCCG AATCCAT

SEQ ID NO:621: (Length of Sequence = 237 Nucleotides)

CAATACCCCT GNTCTCTGGG GCAGGTGTTT TGGGATCCTG GACAGGAGGG TCAGGTGAT TTTAACCAG AGAGACCTGA
TCTCATCACT GTCTTTAGA GGGGAGAGAA GTTCGTCG GCCAAAGGG ACCAGTGTGT AGAAGTGTCT CTCCAGCTCC
TTGGCGATGT CACTGTGGT CCTGGCGTTN ATGGAGCCTA CAGGGGCCCT AGGACCACTG CCCCNTTGG CAGCGGC

SEQ ID NO:622: (Length of Sequence = 247 Nucleotides)

AGAAGGTCAA TAATAACAAA CTTCTTCAAG GTAAAGCAGG ATGTGGGAAA CCATTGCAAG GAAGCTAAAA ACCTTGAAAA
AAGATTAGAA GAATGGCTAA CTAGAATAAA CAGTGTAGAG AAGACCTTAA ATGACCTGAT GGAGCTGAAA ACCATGGCAC
GAGAACTACG TGATGCATGC ACAAGCTTCA ATAGACAATT CGATCAAGTG GAAGAAAGGG TATCAGTGAT TGAAGATCAA
ATAAATG

SEQ ID NO:623: (Length of Sequence = 315 Nucleotides)

AATTTAGGTT TGTTTTATTT AAGTTTAATG TTAATTCAT GCTGTGTTT AGTAAGANCA ATACAGATTG TGTATCTGTG
GCTCCAGTCA GATATCCAGT AGTACAAATN AGCTTCAAGT TACACATACT GANCAAAAGA GGTGAGCGA GCGAAGGAGG
GGAGGAGTGA GGGGAAGGAG GTAGGGGAG GGGGAAGGAG AAGAAACAAA AGANTTGAAC AGGCATGCAG GCTTTTCCAT
ACCACCTTCA ACGCTAACCT GCTTCAGTGG GAGAGTAAAG TAGGCAAGAN TGAGCAGCCA CGGATTGTTG AACTG

SEQ ID NO:624: (Length of Sequence = 375 Nucleotides)

CCATGTTGGC CAGGTCTCGA ACTCCTGGCA TCAGGTGATC CGCCCGTTTC AGCCTCCAA AGTGCTGGGA TTACAGGCTT
GAGCCACCAG GCCTGGCCCG TTAATTTGT TATTTTAA TGCATTAGTA AAAAAAATAA AATTTTAAT TGCTAGAACA

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TTAAATATCA ATACCCACAT TAATAAAGC TATTTGGGAG CCTTAATAAT TATCAATGGT GTAAAGGGGT CCTGAGACCA
AAAAGTTTGA CTTCACCAGG TGTTTGAACA CTACAGATCC CATCTTGCCC ATGAAGCTTC CCTAGACATC CCCACCCAC
CGTGCTCCNT TCTGCATCCT ACAATAGCAT CCACTGGTAA GGGCCACTTA TTTTA

SEQ ID NO:625: (Length of Sequence = 305 Nucleotides)

GTTCCTAGAT TACTCAAATT TAGTACTCTT CCATCTTTTC TTGTTGCTAT TCTTTTAAAA TCACAAGAAG TCCATAACTT
AAGTAGGAAT TTGTATAATG TAACTTATTG TGAGTATATT TCCTTACCAG CTCATAAAGA ACTATGTAAA CTTGAATGCA
TATTTTINAC ATAAAAATAG CAAAAAATAA AAAANCAAAA AAAAAACAGT ACTGGCCTAA TACTAGTNGA NTTACAGAAT
ANGGGTAAAT ANIACATGNN CATCCTTACA GAGTGAGCAT AAACAATACA TGGTAATAAT ATTTA

SEQ ID NO:626: (Length of Sequence = 300 Nucleotides)

AGCAATCACA TAAGGAAGGC ACCTCGAGTC TAGTAACACT GTGACTCTTG CGGTCTCTTA GAGGTACTTG GTGGTCTTGG
ATAAGATCTG GAAGAATTCT TTGGATTTC AGACATAGGC TCTTGINCTC TTCCCTTACT TTCTCCCAA CAAATGGCAT
CTCTCTCTCT CTCTCTCTGT GCIGAGCTGC CTAGAAGTGT GGGTGGGATC ACACAAGCAC CCTTNTGGCC ATTGCCCTG
GGACTGTGCT AGGTCAGACC TGAAGTCAGC ACAGCAITGG GTCTCACCCA ACACCTGTGG

SEQ ID NO:627: (Length of Sequence = 369 Nucleotides)

GAAAAAGAGA GAGGAGAGGG AGTCAGGAGT GCITTGGAAC TGGAGGTTTG CTTTCCACTG ACAACATCCA TATCTNCTGC
TAATGCCAAC ATGCTCCCAA GTGTCTTAGT GGGTCCACA AAGTTGATCC AGCCAGAAG AGTTGCAGGG ACAGTCAAGA
AACCAGAGGT GCTGCCACA TCCCATCAC TCCCTTTCCC AACTTCCAG CCTTGCCCCA AAAGCAGCAG CTCAGGACAA
CCTGAGATAC TACTGTNATG GGTCCCCGGG AGGAGGACAG CAGGAGTCTG AACTCCAGAG GAGGGGAAT ATGGGTAAAA
CAGAGAGATG GCAAGGAGAC AAGCTGTNCC CAGACAGAGG GATGGGAGG

SEQ ID NO:628: (Length of Sequence = 310 Nucleotides)

TTTTTTTTTT TGAGACAAGA GTCTACTCT ATCACCAGG CTGGAGTGCA GTGACATAAT CATGGCTCAA TGCAGCCTCG
ACCTCTCAGA CTCAAGTAT CCTCCACCT CAACATCCCA AGTAGCTGGG ACTACAGGAG AGCCACCATG CCCAGCTAGT
TTTTNACTTT TCTGCAGAGA TGGTGTTCCT CCATGTTGCC CAGGTGGTTC TGGAACTCC GGGGCTCCAG CGATCCTCCT
GCCTCAGTCT CCCAGAGTGC TGGACCCACA GGCATGAGCC ACCACACTCA GCCCCAAAT CCATGATTTT

SEQ ID NO:629: (Length of Sequence = 443 Nucleotides)

CGCAGAGCAG AGGGTGGAAA GGCAAAGAGT ACAAGTGAGC GAGCCCTTTT TGTGATGGCG TTGATCTGTT TACAAGGGGA
CTGCCTAAC ACITTCCATT AGCCCCACT TCCCAACACT GTTGCACTGT TGCAGTTAAG TTTCCAACAC ATGAATGCTG
GGGACACAT TTAAATTAGA GCAGTGATGA TCAGAAAGTT ATTGTTGGA AAGGAGGTTT TATTTTAACT TAAGTAGCTT
GAAAAAGCTC TTCAAGGAGT TGATACAAGA ACTGAGATTT GAATTAGAGG ACOGAGTAAA GTGAAGAATC TGCGGGCAA
GTCCAGGCA GAGGGAAGAG CAGGAAATGA TTCATCAGTA GACTTGCTCT CCCATTCTCG GCAAGGGCTA TTTACATTT
TCTTCCACTC TCTTCTCAG CACATCTCCA CCTGGGTTTT CTC

SEQ ID NO:630: (Length of Sequence = 263 Nucleotides)

TGGATGTGGT GAAAAGCGAA CACTTATAGA CTGCTACTGG GAACGTAAAGT NAGTACAACC TCTATGGAAA ACTGTATGGA
GATTTTTTAA AGAACTAAAA GTATATCTAC CATTTGATCC AGCAATCCCA CTGCTGGGTA TCTACTCAA GGAATAAG

212

TCATTACATC AAAACACAC CTGCACACAT ATNITTATTG CAACACAATT CACAATTGTA AAGATATGGA ACCAACCTAA
GTGCCCATCA ACCCAATGTA GGG

SEQ ID NO:631: (Length of Sequence = 221 Nucleotides)

AATTTTINACA TATCAGTAAT TGTITTTTATA ATTGTGTGTT TINATGAAAC AITGCTATGC ATTTATTAGG AAAAAGTGA
TTTCCCAACA GGTGAAGTGA AAAGNTATTT TAACTATTAT ACATAATCAA GATCCTGCCT CTACGGAATT AGCTAAACCT
AAAAATGTTT GCATTAAATGN ATAAATTCCT CCNGCATTC CTTGGGCCNGN TCTGGAGGTG G

SEQ ID NO:632: (Length of Sequence = 344 Nucleotides)

TGTGATGGAG ACAAACTATT CAGTATTGGG ACCCATGGGA GGTGGTCTCA CCCTTACCAC AGGACTAAAT CCAAGCTTGC
CAACTTCTCA ATCTTTGTNC CCTTCTGCTA GCAAAGGATT GCTACCCATG TINTCATCACC AGCACITACA TTCCTTCCCT
GCAGTACTC AAAGTAGTTT CCCACCAAC ATCAGCAATC CTCCTTCAGG CCTGCTTATT GGGGTTCAGC CTCCTCCGNG
TCCCCAATT TTTGGTTTCAG AATCCAGCCA GAGGACAGAC CTCAGTACCA CAGTAGCCAC TCCATCTCTT GGACTCAAGA
AAAGACCCAT ATCTCGTCTA CAGA

SEQ ID NO:633: (Length of Sequence = 378 Nucleotides)

GGTCAGACCT GAAGCCGGCA CAGCGCTGTG ACTGCCCAAG ACCCCCACTG TAACAACAAC CCAGCTGCCA CCTATTTTAC
TCAAGGCCCC AGGGCTCTCC AATTAGCAGG TAGTGAAGCC AGCCAGGCTT CTNCTCTCC CTTCAGTGCA GTAAGCTCCC
CTGGTCCCTA GATGCATTCA AAGGTGCTGT CTGAGAGCCA GGGCTCTCAG TCATAAACCT TATAAATCTA CCTGGNGTTC
TGTTCTACCA TCGCTGAGCT GGCATGAAT CCACCCGGCA AATCCCTTCC CACTNTCCCC TCCCCTCTTN CCCAGGCAGG
GTAGTCTGTT NCCACCTACG ACGTCATCAC AGTCTCATGC GGGATTACTG CCAGCTTC

SEQ ID NO:634: (Length of Sequence = 28 Nucleotides)

ATCAGTGGTC TACCACAGNT TAAGTAACGG GTCATATTG GAGTATCACA CATCTCAGTC TTGTAGAAAT TAGGNACAGC
AATTAGGAGT CATGCACATA TANGAGATGT AATCCCAACC TTGACTATA GCCTACTCTT GINTTTTACA GAAAAGACTG
TGGNGGAAGA AAACCTTTA CCTNTTNTT CAGGGAGAAA CTNACANCAC TCANCTGCCT GGCAGTGAAA ATNTGGCATC
CAGTCCACTT TACCATCAGT GTTTAAGGAA ACCATCTCTG GTAAGC

SEQ ID NO:635: (Length of Sequence = 226 Nucleotides)

TTGGGATGAT GCTTTTATTA AACGGAAGCG TCCAAAAGG TCTGAGTCAA TGGTGGAGAG GGCAGTCAGC CCTGTGGCAT
TTCAGGGCTC CCCACCGATA GTNATCGGCA GTGCTNACTG CAATGTGATA GAGATAGATG ATACCCCTCGA CGACTCCGAT
GAAGGATGTG ATCCTGGTGG AGTCTCAGGA CCTCCACTT CCATCCTGGG NGTGCCCCCT CCTCA

SEQ ID NO:636: (Length of Sequence = 367 Nucleotides)

AACGCAATAA AAAGACAAAT TCCAAATGG GCAAAGATC TGAATAACA TTTCTCCAA GATATGCAA CAGCCAATAA
ATACATGAAA AGATGGCCAA CATCATTCAT TATGCATTGC AGAAATGTAA GTCAAAACCA CAATGACATA CCACGTGTCT
CCCACTAGGN TAGCTACAAT CAACAAAATG GACAGCAAAA AGTGTGGTG AGGAGTAGAG AAATCTGAAC CCTCATGTAT
TGCTAATGGA AACACAAAAT GATGGAGCTA CCATGAAAAA CTGCTTATCA GTTTGACCTC GGAAGTTAA ACACAGAAGT
ACCACATGAT CCAGCAATTC CACTCCTAGG TATATACCCC AAGGACT

SEQ ID NO:637: (Length of Sequence = 384 Nucleotides)

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TTCATAAAAA TTTTACTTAA AATCTGTAAAC GCTAGATATT GACTATCCCTT AGTTGAGTCA CTGAGGTTTA AACACAATGG
 TAAGTCTTAA AGTCTGCTAT TTACAGAGCA TTGAATCTGT ACCAATTTGC AATAGAAAGC CTTCAGTATG CAAGAAGTTT
 GCATGGGTAT TAAGAACACA GCCTAAATAA GGCATTGTAT CTAATCTGCA GGAAGAATTT TCTTCCCCAA AACAGAATTA
 TAAAAGCTTA CTTTAAACAG GAGGCAGAAT AATTCTTTTA GGAACCAATT TCATTCTGTT TCTACTAACC TATACCATCT
 GAGGAATCTT AGGGAGGATA ATAAAANTCT CGTGTATTCC ACAGCAAAC TACATACCCT AAAG

SEQ ID NO:638: (Length of Sequence = 409 Nucleotides)

GAAATTTTTC ATCAGCTCTT GTTCTCTCTC ATTCTTTTGG ACCTTGTAGA TTTATCCCTT TTTCTTAATT TATTCTCACT
 TAATGGGATT TCAGGAGCAT ATTGACTAAG TTTTCATTTT TACATGTATA CTGGGGAGTA TGACATAGAC ATCTCTGTAC
 TTAGATATTA CTGATGTAAG TCTACTTTGA ATCAAATGAA CAGATGTTTA AAAAGTATTG TNCCTAATTG TTTTAATGAT
 TTCINCCGTG GAGTTGGGGT GGTGCTGCCC ATCACCACCT CAGGACGGGT ATTTGAAAAT ACCTGGGNNNA AATTGTAACA
 ATGTCCTGGA AAACACTGCA GGATATTTTA ATGGGCAGA GGGGTCAAGG GGATGGATTA ACCATTGCGG AAATGTGAGG
 GACGGGTCC

SEQ ID NO:639: (Length of Sequence = 197 Nucleotides)

GGTCTACTC ACGGCTCAAG AGCATGGCTC AGGAGGAGAT CCGCAGAGAG ATGGACAAGA TNATOGAGGA CCTGGAGCTC
 TCCAACAAC GGCACACT GGTGCAGACA TTGTGCGGTG GCATGAAGCG CAAGTGTACC GTGGCCATCG CCTCTGTGGG
 CGGCTCTCGC GCCATCATCC TGGACGAGCC CACGGCG

SEQ ID NO:640: (Length of Sequence = 398 Nucleotides)

GAGAAGGAGT TTGCTCTTG TCACCCAGGC TGGAGTGCAA TGGTGCGGCG TCGGCTCACT GCAACCTCTG CCTCCCCCGG
 GTTCAAGGGA TTCTCCTGCC TCAGCCTCCT GAGGAGCTGG GATTACAGGC ACCCGCCACA CACCCAGCTA ATTTTCTATT
 TCCAGTAGAG ATGGGGTTTC ACCATGTTGG CCAGGCTGGT TTTGAACTCC TGACCTCAGT TGATCTGCCT GCCTCGGCCT
 CCAAGATGC TGGGATTACA GCGGTGAGCC ATTGGCACAC AGCCTTATCT GCATTTTCAA ACGGGCCAGT ATGGATGGGT
 TTTACACTTA TACINGAAG GTCATCCTTT TNAAAAANG AACCTTTAAA ACCATTAACT ATATATAAAA ACTATATT

SEQ ID NO:641: (Length of Sequence = 402 Nucleotides)

ATAATTTTNA GCAAAATGAT ACAAACACTNT NTAACCAAG TAGAAGATTG GTAGTTACAG TGAATCGTC AGGGAGTACA
 GGGCGGCCAC CACTGGAGGG AGCTGAGGCC CTGGAAGAGG AGTCTGATTC TGTGCAATTC TCTCTCTGCT TTTNTTCCCA
 GCCCCGTTAC AACCGAGTTC ACGTGGGGGG CCGCAGTGCA GCCCCAGCGG TGGCAGCTCT TGGAGTCTGT CCGTTTAGTA
 TGTTTCCCCC ACGAGCGTGG CTGGGTGAGT GGCTGGAGA GCTCCCGGTG TTAACATTTT GATCCTAGAC CGGGGGGAGG
 TGTCACTAGG TAAAGGCCAT TGGGTAACCA GAGTAGATCA GGCCATGGCA TTTGTCTGGC CCCTTTCACA GCAATTAAGG
 GG

SEQ ID NO:642: (Length of Sequence = 395 Nucleotides)

CTTCAATGAT GCAATTOGAT TAGCTGTGTC TTACAAACAG AACTCCAGG ACTTCATGGA TGAGATTTTT CAGGAGCTCG
 AGAACTTCAG CTGGAGCAG GAAGAGGAGG ACGTGCCAGA CCAGGAACAG AGCAGCAGCA TCGAGACCCC ATCAGAGGAG
 GCGGCTCTC CCCACAGCTG AGGGGCTGGG GCTAGGGGTG GGTGGAGCCC TTTTAAATA CCCTTCCCTT CAACAACTCT
 CCAGCTCTGA ATGGAGAAAC TCTCTAGGNC ATCCCTCTT CTACCTCTG CAACCCACCC ATCTATTAG GCTNCCACAT
 TCTAGGGCCC GTGATACAGG GGATGAGGGT CAGCAACCAG CAAACTCTN GGACTTGTG GGAAGAATTT TCCCC

SEQ ID NO:643: (Length of Sequence = 325 Nucleotides)

214

GGTATCTTAA AGCCTTTTCAG GGATTTCAT AGACACATTT CTTTAGCTGA AATCTATTCT CTCAGAACT TACCCAACT
 TCTTAATAAT GTNCAAATTC TAAGAAAGAT ATCATGGCTA CACAGCACCA GGNAGAGCAC ATTATTTCTC TTCACAATTC
 CCTGTCATAG CATCATGGCT TCCTAAGGCG TTTTAAGTIT ATTGCTTCAA CTGATTCTCA TAAATCTCT GAGATGCTAT
 CTGGAAAGTA TTATTATCCC CAGTTTGAG ATAAGGCAAC TGAGGTCTAG ACTTGCTAAA AAATCACACA ACCAGGTAAG
 TGGGC

SEQ ID NO:644: (Length of Sequence = 373 Nucleotides)

CTTCACATCA GCAGCCGAC GAGGTGACTG AAAATCCAAA ACAGAAAATT GCAGCAGAAA GCAGTGAAAA TGTGATTGT
 CCAGAGAATC CTAAGATGAA GTTGGATGGA AACTTGACC AAGAAGGCAA TGATGTAAAA ACAGCAGCTG AGGAGGTACT
 AGCTGGTAGA GACACATTAG ATTTTGAGGA TGTCACAGTT CAATCATCAG GCGCGAGGCG TGGTGGTGAA GAATTAGATG
 AAGGTGTGC AAAAGATAAT GCTAAAATAG ATGGTGCCAC TTAAAGCAA TCCTNGAAGG ANCCAGAGGA GCGAAGGATG
 CAGATCACTG CACCCGTACC CCAAAAATTG GAAAGTCCCC TCACAGGCCA TTT

SEQ ID NO:645: (Length of Sequence = 310 Nucleotides)

TTTTTTTTT AAGACTCAAG GTAATGAAAA CTATGAGTAG AATAGTAAGG TGTGACAGGG GACAAATAAG TAGATATAAA
 ACTATGCTGC AATATTTTAG TTATTAAAGC TGGGAAATAT GCAAAATGTA GTAGTGCTTG GAACCAGAGA AGGTTCTATA
 TTTAGCTGTT CTCTGTAGC TAAATCTGAC AAATGAAAA ATATCATATT CTCGCTCTA GGTACATTTT ATGTATATTT
 TGACAGCATA TCAATATAT GANACATTAG GTTAAATAAA TAAAATCCA GTGGGATAAA CTATATGGGG

SEQ ID NO:646: (Length of Sequence = 362 Nucleotides)

CTTGGGATTG CTAGATCAGT GTTTTAGACA GGAATGCCAA GGCAGAAAAG AATCACATAT CCAGGACCAC ATAAAACTG
 GAGTGATGT CATAACAAAT TTNCTCCTGT GCITAGAAGT TTTATGGCTT TGGATTTTAC ATTGATGTT GCAGTCCATT
 TTGAGTTACT TTTGTATCT GATATGAAAT ATACCCAAGT NCATTTAAAA AATAAGATTA TACAGTTGTT TATGGAATGC
 ATTTATGTAC ACGGGTAATC TGTTTGATT TTGTGTGAT GTTAAACAT CTTTATTATA GTATTNIGTA AGAGTAGGTT
 AATATTGACC TTGGGCATTT TTAACCAAG GGGGAATTT CC

SEQ ID NO:647: (Length of Sequence = 226 Nucleotides)

TTTGGCGTC AGATCTGTAA GTTTATTGTC TCAATGTACG ACAGCTACAT AATGCTTAC ATTCATGATA TTCCATCACT
 GAGGAACTG CTAAGATGG TCCGTGTGTG AAATAATTCC TTAGAGAAAC ACGGAGCTGG AAAAATAATC ACTGATTAGA
 CCTTAAAAAT AGTTCACGTC ATAACATGNC AAAAAGCACA AAGGCTCATT CAGAGAACAT ATTTGT

SEQ ID NO:648: (Length of Sequence = 198 Nucleotides)

AACTAAAAAG TTAACATTT TACAAAACAA CAAGTTTCC TTAATTTATG ATTTGTTATT ATAAAACTA GTAAGAAAA
 ATCCACCAC ATGAAAGCAT TTNCTAAAAT TCATACCCC GTACCTATTT TTAANTACAG TTGGTAAATT GATTAGCTC
 TATTINCAIT TTGANTGATC ATCGGTTTAA TTTTATTT

SEQ ID NO:649: (Length of Sequence = 337 Nucleotides)

ACATCTGCAG CCATATATGA GGTCCCTCAT GAGACTTAGC AACAGGCTG GTTTTAATGT GACAGTGTGT CTGATGTGTC
 CCCAGCACAT TGGGACCACT ACACAGTGT ATTTGTACAT CTGCTGAGTA ACATTGAGTG TGTTGGTAAC TAAAGCCCTC
 AGTAATTATT TTAATTAATG TTTCAAGCT TAATCTGAT CTGTACTTG CATGATTAT TATCCTTGT GCTAAATCT
 TCAATGTTCT TGCCTTGATT GATCTGTCAT TATCTATCAC TTAATAAAA TANTAAATNC CTTTAATTAA GTCATGGTTA
 AATGAGGGAC TTTGTTT

SEQ ID NO:650: (Length of Sequence = 286 Nucleotides)

GGGTTGAAAG GAAAGGTGAC AGGAAAGATG TGTTTAGCAT CCATGAGCAG CTGGGGAGAG TCTTTCCTGT CTCGTAAACG
CATCTGAGAA GATTAGGAAA AAAAATAAAC AGAGCATCAG TTCTTTGAAT CTAAGAGACT TTTTCTACT AAAATTTCTA
CCCTCAAATT CTCAACTAAT GAAGANIGTT TACTTTTGIT TTAAACTCAC TTCATTTTCC CAATTAAC TAATCAAAAA
AGTTAGTGCA TTGTAAAATA AGNTAATAAA GGNTAACACA TTATCC

SEQ ID NO:651: (Length of Sequence = 360 Nucleotides)

GATAATGTAA ATTTTTCCTT CTGGGCTTGT CATCAGGATT GCAATTTTNA GATTTAGITT GCTAATITGT TGGCCCTTGA
AAAATATAT ACACCTGGTT TGTTTTGGTT TTCTTAAGTC AAAACAAGGA AATAAAATCA CATTTCCTTT CCAAGAAAAG
ATAATGTTTA AGTGGTTGTT TAGTGTTTTG TGTCTTTGGG GGTGGGAGGG GGTGTGTGGA ATACACAAAC ACACACACAC
AAACACACAC AGTCTATATA TAANCITATT GGAGCCATCA CTATATTTTA AGGAAAATGN AAATAATCTA TTGAAGCTTT
AAAATTAGGA ATTTTGTATT TAAGCTAAGG AGCCTATTTT

SEQ ID NO:652: (Length of Sequence = 353 Nucleotides)

GTTGTGGGNN CCTGTAATCC CAGCTACTTG GGAGGCTGAG GCAGGAGAAT CGCTTGANCC CTGGAGGCAG AGGTTGCAGT
GAGCCGAGAT CGAACCACTG CACTCCAGCC TAGGTGACAA GAGCGAAACT TTGCCGGCAT TTACACTCTC AAAAGATTTA
ACGCAATTAC AATCAAAAA CACTTGTCTAT ATATAACACT TTTTCACATG GAAATAAATT GGTGGTTTAA GGTTTACAAT
TCCTTTGAAT AAAATTTTCA TTATTAGTTA CAAAATGCTA AGACAGATTG AGGTCTCAAA GAAAGANCIT TGAGGAAAAT
TTATGGTTTT AAAGGGACTT TCACCAAATA TGA

SEQ ID NO:653: (Length of Sequence = 224 Nucleotides)

AAGACAGGGA NTACTTTATT CAAACCCAT CACAGAAATG GACAGCTTGG GTCTGTAAAC AAGCATTCAT GTTTTAGNCC
ATAGGTCAAT AATTGTATAT GAGAGCATAC ACTGCTACAT ACAATTAAC TGNICAGACC ACACTTTTC AATGTTTAAA
ACAGNATAAG CTTCCTGTGA AAAGCAGCAC CTTTGTGTAC GNTTTAATT TAGTATTCCT CTCC

SEQ ID NO:654: (Length of Sequence = 353 Nucleotides)

GTCAACTCTA TTTTCCATAT GAATTATTAG ATTTGGTGCT GTCTTGTGAA GTAACTTGAT ACGATAGATG TGTAGTATGA
ATTTTGTCCA CATGGTTGTG CCCITGGCAG AACTGCACGT ACCTGAAATG GTTCCCTAAT TTTTTCCTAG TATTACTATC
CAACACTTCC TCTCATAATC ACTAGTGTAT TGTATAATIG TTAAGTGTCC TTTATTCATA TATTTAAAT AAAAGAATAC
TCTGGTAGGA TTTTGGGGC CAATAGTGT TTTCCACTGT TTGAGGTATT AGGAGGGCTA TTTACTGATA CCTGTAGTGC
CTTCCCATTC TGGTTTATCA TGCACCTCTA AAT

SEQ ID NO:655: (Length of Sequence = 365 Nucleotides)

GAAACTNACT TCACATTTCT CCAGGGAGGG ATGCTTTTGA AAAACTGCTC AGTGAGATGA AGCACAGATC TGCTTTTINAT
CCCTTTTGTGA CCTTTTAAA GACATAAGGT ATGTTTGTGAC ACTGGAGTAT ATATGAGGGT TGCTAACGTT TAGGTTGAAA
GAGCTGCTGT TGTCCACAGC TTATTTATTT NCCACCCATT TTTGTCTCCT GGCTCATCC AGTTACATTT CCTGGGATAT
GTTTTTGGAG GTTGTCTAGA TCACGGCACT AGAGTCCCTT TGGGTTTCTC CTCCCTCCTC TGTCTATTTG GCCTCGCCCT
TGACAAACAT TCCCCACATT CACAACCAGG CCTTTGGCTA AATGT

SEQ ID NO:656: (Length of Sequence = 372 Nucleotides)

GTCATGAGTC TGAGACCAGC CTGGCCATCA TGGCAAAACC CTATCTCTAC TAAAAATACA AAAGTTAGCT GGGTGTGGTG
GGGTGCACCT GCATTCTCAG CGACTTGGGA TGCTGAGGCA GAAGAATCGC TTAAACCTGG GAGGCAGAGG TTGCAGTGAG

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COGAGATCGC TCCACTGCAC TCCAGTCTGG GTGACAGAGT GAGACCTTGT CTCCAAAATA AAAGAAATTT ACTGCAAAGG
 GATGTTGCAT TTCAGGTGAA TGTATGTAGC CTTTCAGAGG CCGGGCTATT TATTAGATGT ATTTTATAAC TGAGGGTTCT
 AGGTAAACAC AAGCCAAACA GATCCACCAG AAGCCTAGAG CTGTGGACTC TT

SEQ ID NO:657: (Length of Sequence = 334 Nucleotides)

GGTTGTGGAA AAAAAAACCT CCAGATAAGA TTGTCCCTGC TTCATTTTCT TGTGAGGCTG CCCAGACAAA GGTTACTTTC
 CTGATTGGGG ATTCTATGTC ACCTGATTCA GATACTGAGC TTCGAAGTCA GGCAGTGGTG GATCAGATT A CCAGACATCA
 CACCAAACCA TTGAAGGAAG AAAGAGGGGC TATTGATCAG CATCAAGAAA CTAAACAAAC AACCAAGGAC CAATCTGGAG
 AGTCTGATAC ACAGAAATG GTTCTGAAG AGCCCTGTGA ACTTCCTGT TGGAAATCAIT CAGACCCAGA AAGCATGAGC
 TTATTGAGC GATA

SEQ ID NO:658: (Length of Sequence = 286 Nucleotides)

ACAAACCAAC TCATTTCCTT TCTGATAATT GTTGAACAAA AATAGCATT C AGTTTACCCN CTAGTGCTAA CAGAAGNENC
 TCAAGCTGTT CCCCCATCAT GGGNCAGCC CTTAACAGAG GGCTGCACAA ATCTGCAGTG CTGCTCTGGG GAAGGCTNCA
 AAGCACITTT TTCCCAAGAA GGGATGCTGT TCANGTCTGT TAGGGGAAGC ACACCCNCTN TGCTGGGCA CAGATGAAT
 GCCCTTCAAG GCAATCATCA TCTTTTCT AATAGGGAAG GTTTGG

SEQ ID NO:659: (Length of Sequence = 321 Nucleotides)

GGTCTTTATA TGTTCCGAG ACAGGACTGA AACTCCCTGC CTCAAGTCA TTTTCTAAG TAGCTGGGAC TATAGGCTGT
 TTCTTTTTT AAAGGAAGGA TTTTATGTT ATCATGAAGG AAAATAA ATTGGCTAA CTAAAGAGT TATTATCAG
 GAGACACTAT TAAAAAAGG CAAATCAGAA ATTGGAGAA ATTTTTA ATACTGATAA TAAGACAGAA TTGTACCCCTG
 TAACCATAAA TATGTAGAAT TTCTACCATA TCAATAAGGT AATAGTTTCT GTTCTCCAC ATCTCTTGC ACGGTGGGT
 A

SEQ ID NO:660: (Length of Sequence = 302 Nucleotides)

TTTGTTAAGG ACATAATGTT TTTGACTGGG GATCATGTTT GGCTGATGTA AATATTAATG CCAAATAGG AGCTAGGATG
 AAAGTAACAC TGTAAATAGT AGTAGAATTT ATTCATATT AAAATGTGTC ATGACGTAAT TTTTATGGCT TGGCTCAAGC
 AACAAATTTT AGAGTGCACC CTCATTGATG CTAATCAGAG AGACGTGGAT GTGCTGTTAC TGCTTTCTAA CTCTGCCTAC
 TACGTGGCCT ATTATGATGA TGAAGTTGAT AAAGTAAACC AGTATCAACG NCTAAGTCTA GG

SEQ ID NO:661: (Length of Sequence = 249 Nucleotides)

AAAAAAAAA ACTCTCAAGG GTCTAACTTT ACCCATCATA AAATAATTTT GGTGCAAGGG TAGTGGCACA TTTTATTTAT
 TTGGGATACC ATGCAGATGC AACCTAGCCC CATTCCTTAT GCAAAGTAGA TTATCCGTGC ATTCTTCTG CATTGNTAGT
 GAATCCTTAC TGGGNCAC TCATTCCATT TGGCAACAAT CTTAATGNN CAGGCAATAT ATAACATTGC TGAAGTCTCT
 TAGCACTAA

SEQ ID NO:662: (Length of Sequence = 340 Nucleotides)

TTTTTTTTTG GCAGCCTTGT AAGGAGAACT TCACCAATTC CCAGCACATC CCTATGTGTG CGCTATTTT AATGCACCTC
 TCTGAAACAG AGACCTTTT GTTCAACACC ATAATAAG CTGGAAAGTC AGTCTTCAGG CAAGGCGAGG GAGGAAAACA
 TCCCATTAGA ATTTTTTCAG GAAAGACTTA TGGNAAAAA TATCTCTCTC CCACCTCCTT TTATCCCAT GAGACACAGT
 TTCCCACTGT AATCAGGTA ATATGCATTT NTAAGTNCIG ATATGTGATA CATTATGTG ATGGCAAGA TAAGTCTGT
 TTGCATGCAG GGTACTAGAG

SEQ ID NO:663: (Length of Sequence = 325 Nucleotides)

CACAACAATT CTATGAAATT AGCTGGGGAG ATACTGTCTT TATTTTTCAC AGCTGAAGAA ACCAAAGCTT TGGGAAGTTT
GTGACTTCTC TGAGATCACA GCTGGTGATA GAAGGAGCTG GGACACGCGC TTGGGTTCAC TGGCTTCTGG TTTTGGTTC
CTGGCTTCTA GTGCTGGAAG AAGCCCTCTC TTCCCTTCT CTTTCTCAG TAGCATCTGA CTCTTTTCAT AAGCAAACAG
CTGTATAAAC AAAGCCCCCA TTTTGGTCAA GCACAGGGTG AATGTGATAT TTGTTCCAC AACCTTATTC TNCACCAAC
AGCCG

SEQ ID NO:664: (Length of Sequence = 300 Nucleotides)

TTGCTGAGAG AGATGATGTT TCATGGGTGA TGTCTCTGGA AGAGATTGGA TAGGACCCAA GCACAGAGCA AGAAATTGGC
TTTAGGCAAG TCAGATTGTT CTTATACTAG TTAGGAGTAA AGAGAAATGG ATGATACAGA TGCAGCTATG TTCGTAGGAG
GGAAGTGGAG GGAATTTCTG TGTGATGGCT TTAGTAATGT AGGCAGCAAG GTCAACTACT GACAGTGAGA GGAGAAATTC
GGGAGGCTG GTCACAGTTT GAAGTAATAG GTCATGGGGA GGCAGATGTT TGTGGGTGGA

SEQ ID NO:665: (Length of Sequence = 327 Nucleotides)

CAAATAAGAA CCCAGAGAGA GGGAGAGATT CACAGACAAT AGCTTAAAAA GTCTAGAAAT TATAGACCGA TTGAGGTCAG
CAAGAAACAA ATTATCAAT ATATCCCCTG AGGGCTAGAG CCAGACTTTC CCCATGATT CCAAAATTAC TTCGAGTTT
CATTAGGGTG AAAGCAGTG CAGTCTCATG AGTTCAAGAA GTAAAGGTTG TTCCTTAAAA TTTAGATAGA CTTGACAACC
ACTTAGGATG GCATTTTGGC ATTCTGTCCC TGCTCATCAA AGAAGTTGCT CAAATTTGTG GGNATAGAGGA ATGAGGAGCA
AGAAGTA

SEQ ID NO:666: (Length of Sequence = 319 Nucleotides)

ATTCCCAAGG AGAGGCTGAG ACAGAGAGGC TTGAGCTGT TCCTCAGCCC CCTACCCFAA CTCCCTCCCT ACTGTTGATC
AGGCTGGTCT CTAATCTCG ACCTCAGGAT ATATGTGTGC CTCAGCCTCC CAAAGTCTG GGAATACAGG TGTGAGCCAC
CATGCCGGC CTGGGTTTAA TCTTAAGGTC TTGTGTGTGC TGTTCATCT GCATGAATAC ATTTCCTCA TTTACTTACG
TCTTAGCTTA AATGATACCT CCTCTCTTT CCTACTGCCA TTATCTTCCC TTGTCACTCC ATACTCAGAT TTCAITGCA

SEQ ID NO:667: (Length of Sequence = 288 Nucleotides)

GGTGGCAGGC TGCTTGCAAT NCAACGCCAG GNGTTTCTG ATGGGTGAGG GTGGGGAGGC TGCACACCAC ACAAGGTCAC
CCTACTCTAC CTTCTACCCA CCTACCACA GCCCTGAGCT CACCACTCCC CCAGGGCATG GGACTCTTGA TAATTCCAAG
TCCATGAAC CCTACAATTA TTGCAGTGGG TATGANTCCT TCTATGAAAG TACTTCCCT GAGTGTGCCA GCCCTCAGTT
TGAAGGTCCC TTAAGTCTC CCCCAATTAA CTATAATGGG GATATTTT

SEQ ID NO:668: (Length of Sequence = 212 Nucleotides)

TCNTTTCINT TTCTTATCTA TCINCTTCAC CATGTGTCTT CGGGGCTGG AACATAGTAG ATGCTCAATA AATATTGATT
GAATGAATGA ATGAATAAT CTNCTTACAC CTCTCATGCT TCAAACAGGG AAAGGCTAGA TTATTTAGAA GTCTTGTGCG
GGATAATAAT NAGCTCAGTG GAAGCCCTCT AGTCTCACT CGAGTTTCTC CC

SEQ ID NO:669: (Length of Sequence = 281 Nucleotides)

ATCTTTTCAA CCTATCAAT AAGATGTTAT GAAAGATTGG TTCTCTGTT TACAAGTAGT ATAGAATCTT TTTTGATCTT
TGACTCTGTG CTGCTTATCT CATCAATGTT GTTGCTATTA ATATCTGTCC TTTAACACTG GATGTTGGGA TCTTAGTAAT
GTGCTGATA ATAGGATTTT CAGCAAACT TCCATATCCC TTGAAGATAT GGTAGTTTAT ATTACTATAT CGATAACAGT
TTTGCCCTGTG GAGATTTGAC TAGTTTTAGG TGTGGAAG C

SEQ ID NO:670: (Length of Sequence = 234 Nucleotides)

AATAAAGTGG GGATATTGA TGTGTTCTT TTCTGATCCT TATGCTGACT GCAGTATCAG ATACCATTTC ATTGTTTAAA
AATCTTCCTT TTTTTTTTTT TTTTTTTTGG CATTGTGCTC TTTTGTGATT GTTCAAAGT CAAGTTGATG GCCNCAAAT
TCCAGAGGCT AAGCAATGCA GAAGTTTCAT CTACTGGCAG CTAGTTTTAT TTCTTAAAAA TACATTAAAT TAGG

SEQ ID NO:671: (Length of Sequence = 252 Nucleotides)

CCTGAAATGT AAATGTTTT TAATATATTT AAGAGCACAC AGAAGTCTTG ATTTATAAAA AAATAAATAT ATAACATGAC
AAATTTACTG ATGATCCTGG GGCTCTGAGG TCAAACTCTT TAAATGATCA GTGAAAACAT AAAACATCCA TGATCTGTTA
ACACACACAG GGGCATATTC CAGTTGTAAA AAACAANTTC CTGAAGGCT CAGNACGTAC AAAATCAGT NTTTNGGCA
GAAAGCACAT CC

SEQ ID NO:672: (Length of Sequence = 366 Nucleotides)

CCATCCAACCT ACTTACTCAA TCCTCTTGAA ATCTGCCTTT TGTAAATGTA CTGATAGGCC AGCGTTTTCT TTCACTGTGG
GAAATAAAGG CTACTGGT GCTTTAGGGA GGGCAACAAT GTCAGCTGCA TAAGCAGCAA GAATATTATA TTNATTACT
AGTCCACCTT TAATAAAGAG AGAAACCTTA GGAAATGGAA AGAGGTGTCT GTTTTATATT TCCTTTGCTT TTCAACCAAT
GTTTAGACAC TCTCCCTTCT AGTGCTTGA GAACCTTCAT GGAAACTCTG TTCAGGTTCT TGACTCTCAG CGACANATGT
GGAGGTCTTT GTGGTCTTAG CTCTCTAGGC CTGAGAATCA CATACA

SEQ ID NO:673: (Length of Sequence = 349 Nucleotides)

CCTCCCCTCT TGGCCTCCCA AAGTGTAGG ATTACAGGCG TGAGCANCCA CACCCTGCCT GGTGTGTAC TCTTTTAAAT
ACTAAGTTTT TAATGTTAAA TGCTGCTTTT AGATACACTG TAAAAATACA CCTATCAATG AGTTTTTTTA TTTAAACAT
TGCAATTGTA CTAGNCTTTA AATACTAAGC AATAATTGAG GCTCAATGT TGGTTTATAG TTTTCTCATT TCTTTCATT
AATACCTCTG TAAATGAAG CAGTTACTTC CATTTTCTG AGGTGAGATA AGTGCCCTGC ACAAATGTTA TAGGNCCAGT
AAGTGAGGAC TGGAGCTCTG GATCCTAAT

SEQ ID NO:674: (Length of Sequence = 256 Nucleotides)

GCACTTTGGG AGGCCGAGGC AGTTGGNTCA CCTGAGGTTA GGAGTTTGAG ACCAGCCTGG CCAACAGGGT GAAACNGTN
TTCGTCTAAA AATACAAAN TTAGCCGGGC GTGGTNGTGC ATGCTGTAG TOCCAGGTAC TCAGGNGGCT GAGGCAGGAG
AATCACTTGA ACCCGAGGTG GGGCAGGNGG AGGTGCACT AAGCCAAGAT CGCGCCATTG CACTCTAGCC TAGGTGACAG
AGTGAGACTC CATCTC

SEQ ID NO:675: (Length of Sequence = 292 Nucleotides)

GAAGTCATTT TAGACTCTCA ATTTTAAATT AATTTGAAT CACTAATATT TTCAGGTTT ATTAATATAT TTANTCCTA
TTTAAATTIN AGATTATTTT TATTACCATG TACTGAATTT TTACATCTG NTACCCCTTC CTCTCCATG TCAGTATCAT
GTCTCTAAT TATCTTGCCA AATTTTGAAA CTACACACAA AAAGCATACT TGCATTATTT ATAATANANT NGCAITCAGT
GGCTTTTTTA AAAANTGTTT GATTCAAAC TTTAACATAC TGATAAGTAA GA

SEQ ID NO:676: (Length of Sequence = 392 Nucleotides)

ATCAAAGATT GCAAACATTT ATTTTGATCC TGGACTACAG TGTGGGGATC ATTGCTATGT TGGCTTGCTT TTNCTATCCA
AATCTGAACC CAAAGTGAGC CTTGGTGTAG CCATGCAGGA AGATATGTGG GATGCTGACT GGGATTGCA TCAAAGCCTG
TTCAAGGGAT GGACAGGAAT AAAGGAAAAT NCAGGTCATA GATTGAGTGC TATATTTGAN GTAAATACAG ACCTTCAAAA

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AAATATAATA TCAAAAATCA CTGCTGAGCT CTNCTGGCCT TCCATACTTA GCTCAGCCCG GCACTTGAAA TTCCACTTA
CTAATACAA CTGCTCCTCA GGAAGGANGA GATTACTTTA GNAATCCTT GCAGGATGTT CCTGTCTATG GT

SEQ ID NO:677: (Length of Sequence = 333 Nucleotides)

CGCATGCTAA TTAAAGATA TACAGGAAGN GAAAAGTAGG AGTTAAGTTG GATGTGTGTA GAAGTTGGAT GTTAGTATTA
CCTTCAGGAA CAGATCCCCA TGGCATGTCA CAGGCCITAA TTATATACCT GGCTTTCTTA TTGTCTCCAC TTTATCATGA
GGACAAGGTC TTGGTTTCAT GGGAGGAACT TCTCCATTGA AATAAATGTC TGCCATGTCA GCACCGTTTG TNCCTCAGT
TTAATATAA TGGACCATAT ATTAAACATN ATTAAACATA TTTTAAATN TGGTGTCACT AGGTAGATGC CCCAGNCATC
CTACTTCCCT CAC

SEQ ID NO:678: (Length of Sequence = 359 Nucleotides)

AAGGAGACAA AGAGTAGATA TGGTATCTTG GGGACAAATG GCACATGAAA GCAGATTGG TGCTTCTTTG GTAAATGGTT
TGATAACCAA TCCCTAGGAG ATAAAGTTAA TGTGTCTTTT TTTTTTTTTT TTAANCGAAG GTCCCTTACT GGTCTGCTT
CCATGAGTAG CCGTGACCAG GGGAAAAGGG AGAGTTTTTT TTTTTTTTTT TTTGAGAAAG AGNCTCACTC TGTGCCCCAG
GNVGGAGTNT AGTGGCATGA TCTGGCTCA NINCAGCCTC TGCTCCAG GTTCAAGCGA TTCTCNTGCC TTAGCCINCC
GAGTNGCTGG AATTTCAGGC GCATGCACCA TGCCTGGCT

SEQ ID NO:679: (Length of Sequence = 339 Nucleotides)

GGTGGCACAT GACTATAGTC CCAGCTACTT GGGAGGATGA GGAGAGGNN TCACTTGAGC TGGGGAAGTA GAGGTTGCAG
TGAGCTGAGA TCTCACTACT GTACTCCAGC CTGGATGACA GAGTGAAACC CTGTCTCAAA AATAAATAAA GANAGAAAGA
NTATAAATAT TTTGTATCAA TTTTCAGCTT TTACAGTCAA TGAACTTAAG TCTTAATTTT GGTACAGAA TTAATATTA
ATATTAAACA TCAAGGCAAT GTAAAAGTAA AGTACAGTTG ACTGAAGCTG GGACACAGAC GGNAAAGAGA GTGAATGAAA
AGAAGGATAC TAATATTCT

SEQ ID NO:680: (Length of Sequence = 356 Nucleotides)

CTGTATAATC AGGTATATCA CAAAGTCTAT AGTCTCTGAG ACATGGGTGA GTAGGTGTGA GCACCTGGTG AAACAGGTCA
GAGGAAAAGC AAGTTGGCGT TGGAGTCAGC TGTCAAGAGA TAGATCCGTG ATGGTATCGA GATCACTACA GACAGGTGGT
GGTACCTAG TGTGTCCGC TGAAATTGG AGGGTTTAAT TTTTAATCCA AATACCATAG AAATGGATAT GAAAAGATGG
GTGACACATG CTGCACGTTG GGAAGTGGG ATGACCAGGT GCTTAGTTGC ATGGGAGAGG CCACAAGTGC TTGGCAATGT
TTTGTGNGAC TTAGCCTCTC ATCTCAGGAA TTAGCT

SEQ ID NO:681: (Length of Sequence = 345 Nucleotides)

GGCCTGGTGT TTGGCTGAGG TGCACTAGGA CCCCTGGCCG TGGTGTACTG GATGGCATCA GTTCTGATGG GTCANATGTC
CATTTCTAACA GGTGGTGTCT GGAGAGGGAG CAGTTGTIAA ATATCTTTAC TATCTCCCCT NCTCCGGACA CCTAGATGCC
CAAAATATACA GCACGTAGTA TCGAGGCAGG CCTTTTGAT TGACATCAGA ATCAGGTTTG CAATGGAATA GGAGCTTTCC
TTCTCTCTGT CACTTTAGCC CCAGGCTCCA CCTCANAGTC TGAATGCTC ATACCTATGG CAGGTGACCT TGTGTAACAG
NTGGGGTTA ATGCCATTCT GTCT

SEQ ID NO:682: (Length of Sequence = 302 Nucleotides)

CTCAGACATA TCTTTTTTTC TCCTAGCATG ATGCCACCC CAAGGTACTT ACACGTCTTC AACACACCT TCCGGACAGC
TTCTGGTAT CTTGTGTGGC TATCTGGTG CACGGAATAA TTCCATCTT TTGAGATAAT GGGGGGAAGC CTAGTAGGCT

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CTGGTTCCTT CTGGTCTGAA ATTAGAGTAG ACTCGTTCG AGTACTTGGC AAATGACTAT TTGATTCTCT GATTCCCTGG
NCTCCATGCT CACCAGATGC ATAGCAGGGA TCTCTCCTAG NCACTCACAT CCAATTTTCA GG

SEQ ID NO:683: (Length of Sequence = 329 Nucleotides)

GATTTTAAAT AGTTAAACA TTTTITAAA TCCATAAGTA ATTCTTACTC TACTCATTTA TACACACATA TACTCACATG
TACACAGACA TACCTACACA CACACTTATA AATACATGTA TACACAGAAT ATAGTAAGGT CTTTTATCCC TTTTCAATGA
AATAAATATT GTATTCTATA TTTAGNATAA ATAATGTGA AAAAGTGATT TTGGAGAAAG GTTGAAATGA TTGAGTCTTA
AGTGTGTCAA TGTATAATCT ACCCCTTTCT AACATCGTG TTTTAAGTAG TCATCTTACT TCAGAAATTA GAGGCTCAAT
GTGTTTAGG

SEQ ID NO:684: (Length of Sequence = 281 Nucleotides)

AACATGGCTG ANTTGAGATT ACACTGCCAT GATACATTGN CTGACAGCAC TTCACATTTT CCTGAGTTG GGGACAGAAA
TCACACTGCC CAAATACATT ATCTGATGGC TCTCATGTT TCCCAAAAGT TAGGAAAGGA GGTTCATAT ACATACATGC
ACAAGTGCAT ACACACACAC ACACATACAC ACACACACAG TGCTAGATGA GATGTTGANT GNCATAAGGA AATGAAAGIN
CCATCTCTCT NTNCCCTACC CCTGCATCT GTCCCTTNAT A

SEQ ID NO:685: (Length of Sequence = 324 Nucleotides)

ATTTTAAATA ATTTTAAACT AGCTACAAA TGCAATCAC TTCACAACT GACAGAGGAG ACAGGAGGAA TTTAATATTA
CATGCTATAA TGATATTAT CTCACAGTTT ATATTTCATT CATTATATT ATTTTITAA AAGGTTCTT TATCAGCTAC
TAAACATCTC AGCAATTTGG TGTGCATAGC TCTAGATTAA GCAACAAAGN ATTGTACTGA TAACAAACCA CAGGGGAAAT
GGTGGTTAGT AAGAGTCAGC CTTATAAAT TTACATCCAC ACTGTTTTCA CAGCAAGNIT GCTCTCTCCA AAACGGTGGN
CATC

SEQ ID NO:686: (Length of Sequence = 380 Nucleotides)

CGAGGAGGAG GAGGAGAAAA TTCCCCAGA TTGGGGCAGG CCGGCACCCC ACATTCCGTC CTGTTTIGAG AGGAGGAGGG
AAGAGAAATA AACGTGGCAG CGCATAGAAG GCCAGCAGGG AGACTGCTTT CCAGACACCT CCGGCCACCA CAGCCGTTCA
CCCCCGTTT TTTCAGTCTT GGAAAGGAA TTGGGGTCTG TTTTCTTTT GGGCTCTGTG CAACINCAGC TACAGTGGAA
AAAAGCAAAC TGCTCTTGAT CCCAGGCCCT GCCTAAGCCT CAGCAGAACT TTTAAGCCTA AACTTNAAGA GCCTCACCCG
GACGAGCAGG CATNCCTTAA CCTTAAAGCA ATCCAGTTTC ACGGCTGGT TCAGTGGAAT

SEQ ID NO:687: (Length of Sequence = 305 Nucleotides)

GACACTTCCC CTCTTTTATG GAAGCATAGT AAGATTTTTC CTTTATGGG ATCATGATGG AGAAGTATAT GCTACAGGAG
GNGAGGTTCA AATTGCAATG GAACCTCAGG CACTATATGA TGAAGTAAGA NCTNTGCCAA TTGCAAGCT GGATAGGACA
GTTGCTGAGA AAGCTGTAA AAAATATGTA GAAGATGAAA TGGCAAGGCT CCCTGATAGA TTGTCAGTAA CTGGCCTGA
AGGAGATGAA TTATTGCTA ATGAGATTAG GCCTGCTGGA ACCCTATTG GTGCGTTAAG AATTG

SEQ ID NO:688: (Length of Sequence = 390 Nucleotides)

GAAGTCATAA GGCCTAAATA TTAATCCAGT CTGTGACAA GACAAGGTGA ATACAAGCCA GTCTCTACTT CTCTGGCCT
CTGTTTCTG CACTTTATAT AAAGATTGGG CAAGATGGTC TAACTTAAAT TTTATGATC ACTAAGTGA TTTTGTATGG
GGCAGATTT NCTTCGATGA AATAITAA AATAAGNCAC TCAATAAAT CAGCAATGGG GTGCAGATGA GGAATACCGT
TTCTACAGCA AAATATGGGT GAACTCAGTA AGTGTAGNA CACAGAAAT AATGCTGACC TCTGTCATAG CATGTATGGG
ATATTAAATC ATTTCTGCTC TTCCATTCA GGGGTGAGG AGGAACAGCT GTTCTGAAC TCTTTTAAGG

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SEQ ID NO:689: (Length of Sequence = 315 Nucleotides)

GATTTAAGTG TTAGCATTTT TAACTTGAG ACTCTAACAG TAAAAATAAA GTAATCTGAA ACCTGTTTCC ATGGGTAAAA
CACTCTGCCT GGTATTCTTG TACACAAAT TTAATAAATA TGTGAATATC ATAAATGAA AATATCACTC CCTCAATTT
CTTTGGCCTT CACAAATCA ATGTGACTAT GATCCTTTTC AATAATACTT TCAATGACAT TGTGCTTCTT TAGAAAAATC
ACTTAAGTTG TAGCATACAA TAGTTAATAT TAGTCTTTT ATTGCTATGG TATATGCTAA TTTTTTAAAA AGGGG

SEQ ID NO:690: (Length of Sequence = 291 Nucleotides)

TTAAATACT CCATATATTT NAGAAGCAAT TGAAAATGCA TCCATGTATG TNATTGAGC GTTACTAGAA ATTTATTTAT
ACAAATCCAT ATTAATGTGC TAATAAGTGA CAAATATATA TATAGTCATG CACTGAATAA TGATGTTTTG GTCACAGATG
AACTGCACAT ACAATGGTGG CCCATAAGA TTAAATAGA NCCAAATTT CCTATGGCCT AGTGATGCTG TAGCCATCAT
AATGTTGTAG TGCAACCCAT TACCTTTTCT ATGTTTAAAT ATACAAATAC T

SEQ ID NO:691: (Length of Sequence = 451 Nucleotides)

TTGAGCATCC GGAATATGGA GAAGTAATTC AGCTACAGGG TGACCAACGC AAGAACATAT GCCAGTNCCT CGTAGAGATT
GGACTGGCTA AGGACGATCA GCTGAAGGTT CATGGGTTTT AAGTGCTTGT GGCTCACTGA AGCTTAAGTG AGGATTTCTT
TGCAATGAGT AGAATTTCCC TTCTCTCCCT TGTCACAGGT TTAATAACCT CACAGCTTGT ATAATGTAAAC CATTTGGGGT
CCGCTTTTAA CTGGGACTAG TGTAACCTCT TCATGCAATA AACTGAAAAG AGCCATGCTG TCTAGTCTTG AAGTCCCTCA
TTTAAACAGA GGTCAAGCAA TAGGCGCCTG GCAGTGTCAA GCCTGAAACC AAGCAATACC GTCATGTTTC AGCCAAGCCC
AGAGNCCTAA GGTTTACAAA CAACTATGG NCCGGAACCT CCTCAAGTTC T

SEQ ID NO:692: (Length of Sequence = 363 Nucleotides)

GATTTTNTGA TTATTGATAT TAGAAATGTT TAAATTAAG ATATTAAAT TTTATGAAGC TGAGTGGTGA GCACACCACT
TTTATATTCT CTCTATATAA CTTTGIGTAT ATTGAAATG TTTTCTCATA AAAAGTATTT AAGCAAGTTT AGGAAAGAAT
ATTGATAAAT GAAATCTAGA GACCATCAAA AGCCAAATTC ACCATCACAA AGTATAATTG TGTTTCAAAT ATAATTGAAA
TTTGIGTACT GTTGCATATT CTCTTTTGTG TTGTTGTAA TGAAAGCATC TTAAACAGTT GCCTTTCAAA GCTGTTATCT
TTGATANTAA CATACATTAA CCTAACATTG TGGACTTCTG TTA

SEQ ID NO:693: (Length of Sequence = 269 Nucleotides)

TTAAGGGTCC CAAGACTGCT CTAACAACAA CACCCATTTT CATAAATATG GNTCAATAAA CACTTATTCA TTCCTTATAA
TTAGACTCTA TTGTTAGAAT TGTTTtaggt TTATAGAAAA ATTGAGCAGA TAGTACAGAA GATTGCCATA TACCCCTCAC
CCACAGAAAT TCACAATTTA CCTGCGATT AAAGTCTAAT GTTAATATGA TATATTTAGT ACAAGTAGTG GGATTATATT
GATACATTAT TATTAATTAA AATCCNCAA

SEQ ID NO:694: (Length of Sequence = 330 Nucleotides)

GGCATAGTCA CTTCAGACA TGGTGCCTC TCCATGTGGA GTAGGTCAAA GTCTCCGTCC TCCCTGGCCA GGTGGAAGCT
CCAGAGGGAC ATGTTTCAGC TTAGTACAAG GTGGCTGACA CTACTCTCT GTAGGAAGAG GCTGGCTGGA GGTGAGGGCG
CCCCACTCAG CCTGTACCCA TCAAGAAGTA TTCAGAAAGG ATGTCTCTGG CATCCACAAG ACTACTGGGC GAACCACACT
GCAAAAATGA AAAGTAGCGT ACACAATTTA AATTTGTTCTT AAACAAGCAA ATAATCCAGC CATTTGGTGAC TCTGGGAATC
TAGAGTGCAA

SEQ ID NO:695: (Length of Sequence = 344 Nucleotides)

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CACTGTGACG GATGAGTGGG TATTTCTTTG TACCTGAGC TCITTCATCC TACCTTGGTG GTCAAATGTG AGAGCAAGTG
 CTTTGGGGCT CAGAGGGCAT CACTCCAAGC ATTCTGCATG GAGTCTGTG TGGTGAATGT NCTTGCITGGC ATCTTGATCA
 AGGACTTTGT CATCATIAGC CATCAAATGC TTGTGTGGTC TTCTCAACCC TGTAAATGTG ATACTTAAAA AACTGGAAAC
 ATCCTGACAG AACAGTCGA GAAAGTGGTT GTGTGAGCTC TGGTTATGCG ATTACAGTTA AAGTTGGCAG ATAGGTTCTG
 TATTCAGTGC CCCATCAAAA ACAG

SEQ ID NO:696: (Length of Sequence = 324 Nucleotides)

CTTGAACGTG GCAGATAAGC ATTTTGATAT GCTGCTGGAT TCAGTTTGCC AGTATTTTAT TGAGCATTTT ACATCCATGT
 TCATCAGGGA TATTGGCCTG AAATTTTGTG GTTGTGTGTT TATCTCTGCT AGGTTTGGT ATCAGGATGA TGCTGGCCTC
 ATATAATGAC TTAGGGAGGA GTCCCTCTTT TNCCTATTGT TGAATAGTT TCAGAAGGAA TGTIACCAGC TCTTCTTTGT
 ACCTCTGGTA GAATTTGGCT GTGAATCCAA TAGACACAAT AAAAAAATGA TAAATGGGAT ATCACCCTG ACCTCAGAGG
 AAAT

SEQ ID NO:697: (Length of Sequence = 341 Nucleotides)

AATTAATCAA TCAGCCATTT TGGTGGCCGA AATTTATAAG GCAAGTAATA CTTTGTAGTT CTTTGATAGA CACCATGATC
 AGAAACATAG TCTCTTTCTT AAAGGGAAAA TAGGAAGTCT TCTGAGTCAT AACAGATGCA TGCATAAATT TCTCTGAGTC
 TTCATAAGAA ACACAAGCAA GATTTCACAG AGGCAGTGGG ATTTGAAGTG AGTCTTGAGA AATAAGCAAT ATCTGAACAT
 GTAGAATGCA AAATAAAGGA TAAGCAAGTG CTAATGCCCA GAGGGGTAAT ACATATTAAA TANCCANTAA CCAATTGCTA
 CTTGTGTTTC TTACTACTAGA A

SEQ ID NO:698: (Length of Sequence = 317 Nucleotides)

GCAAACCAGG AGAAGCAGAA GAGCAGGGTA AACCTGGGT ATAATTTGTC TAGACCCCA TGTCTCCTTT AGTCTGAGTT
 CTGACATAAT TAACTGTCTA TGAGATGTAC TGGGCCTTTC CTCATTGCTT TTTGATGCCA CCTCACTAAT GTAAACAAA
 CATTCATTTT TTCATCTAT TTTTCTTAC AGCTGCTTAG CACAGTCTT ATGAAAAAAT GAAGCCTTGA AAATGGTATA
 TCCTCTGAC AAAGCTAAGC CTGACAAGTT GGCTGCATTA CCTAGGAATT AGAGAAGAGC AAGGGCAGAT GGTGGGG

SEQ ID NO:699: (Length of Sequence = 385 Nucleotides)

ACCAGGAGAT GGAGGTGCTC TAGACTGTGA TGCTGGGAAA GGATTGTGGG CTAGAAAAAG GGCTCCCTAG GGCCGGCATA
 TGGGCCACTG GGTGGAAGAG GGGCTCTGAG ACCCTCACCC TGGAGCAGGT CATCACCCAC ACCGAAGAAT GAAGCGTGAA
 TTCGGTCACG CTTAAATGT TGAATGTG GCAAAGCCC AAGTAAATGA AATAGCATGG AAAATGGATG TGATGAGATT
 TTTGAATGT AATTAGATT ACATTGTCAC TAGTTATCAG TCTGATATAT CTTATAAATC AAACGTTGGG TTGATTATC
 TTTTATCACT TCTAGGNCCT TACTCCTAAC AGTAACTCAC AAACCCAGCC CCAATCAGA GGCTT

SEQ ID NO:700: (Length of Sequence = 315 Nucleotides)

ATCAGTTGGA TTTGCAGAGG ATTGGAAGGC AGCACCAGGC AGGCTCAGAC TCAGTCTGA CAGGAATGGC TTTCTTTAGG
 ATGAAAGAGT TGTTTTTTGA GGACAGCATT GATGATGCCA AGTACTGTGG GCGGCTCTAT GGCTTAGGCA CAGGAGTGGC
 CCANAAGCAG AATGAGGATG TGGACTCTNC CCANGAGAAG ATGAGCATCC TGGCGNITAT CANCAACATG CAGCAGTGAT
 GCGGCCAGGC TCTTCAGGNT GGGCCTGATC CCNCACTGGT GCTTACTNIG CTGACTGTGT ACTTATCTTC CCAA

SEQ ID NO:701: (Length of Sequence = 387 Nucleotides)

GGCAGGAGAA TCGCTTGGGC CCGGAGGCA GAGGTGCGAG TGAGCCAAGA TCGTGCCACT GCACTCCATC CTGGGCAACA
 GAGCGAGAGT CTGTCTCAAA AATAAAAAAT AAAAAAATAA GGTAGGTCTT TTCATCATTG TGTMTTCTAG CATGTAGCAC

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TGTAACCTCC ACCTACTAGT AACIGAAAAC ACGCATGTGG GAACATTGCA CAGATGGATA GATGCAGAGA TGAAAGAAGG
AAAGCTAAAA TATTNCCAC GTGAAAACCA TGCATCCTGT TCAGAACTA ATTCTGCCTT CACGCCTTCC AGGAGCATGG
GAGGGGIGTC GTCTGNNCC TTTTGTGGAT GAGGGGGACC ACATGGTATT TCTACTGAAA GAGTTTTT

SEQ ID NO:702: (Length of Sequence = 397 Nucleotides)

CATCAAAAA AAAAGGAGCT AACTAGATGC TGTCATAAG AGACTCACTT TAGATCTAGA GACACAGGTT CAATGTAAAG
GGATGAAAA ACATATTCCC TGTGGAATC CCAATGAGGG TGCTATGGTT TTGCATGIGG TTTGTCCCA CCAAACTCA
TGTTTAAATT TAATGCCAA TGTAAATGGT CTGGGAGCCT GGGCCTTAAG AGATAATTAA GATGGATTAA TGCTTTTCCC
ATGAGACTGG GTTAGTCGAG ACTCTTGCAA AAGCATGTTG TCGTTAAGTG GGTCACTCTC CTTTGTCTTG TCTCTTTTAT
ATACACTTCT TTCCCTTCT ACTTTTCCAC CCTATTATGG AAGCACCGTG AAGCCCTCAC CAGATGCCAC CACCATG

SEQ ID NO:703: (Length of Sequence = 374 Nucleotides)

ATACAGGGTT AGACCAAAGA GGAATTCAA TGAGGCTGA TGGATTATG GACCAGAACA ACAGAGGGGT CITGAAGGAA
GGAAGATATA GAAAGGCAA GGTGTGGTT AGAGAGGAAA TCCAGAGTT TTAGCTCTGG GAGGTGTAAT AATTTCAAAA
GAATAAGTCC AGGCCTGGCC ATGACATGGG AAGCTGAATC TCTGCAATGT TTTTCAAAT AGCATAATGG ATATCTTTGA
CTCCTACCCT GAAGCCAGAA AATATTAAAC TTGCATGTAT AATCATACAA ATGTATGCAT ACCTATTAT ACATACATTT
ACATATTTTA TACTTATGCT TTCATATATT CTACGTGAGG TACAATATAC TCCA

SEQ ID NO:704: (Length of Sequence = 422 Nucleotides)

GGCAATGACA TAGAGATGAT AAGAAACAAC ATGGTTTGGT AGAGGGAACA TTTGATTAG ACTCTGCCA TTTTtagctg
TATGACTTAC ATAAGTCATT TTGTGTCCAA GCTCATTTT CTCCCATATG AAAAGTGAAG GGGTTGGATT AAATGACTAA
AATCCCTTC CAGCCCTATG AGCCCAATGT ATTATGATCT CTGCTTTGTT TCCTTCTTAA GAGGCTTCCT ACTATAAAT
GTGACCTATT TACATTTTAA GTTGAAGTAG CCCACAATAA TGAATAATCA NTTFAGATTT TCCTCATCTC CTTTGGGAGA
AATTAAATTC AAGCCTCTAT TCATTTGATG TTTTACAACA AGCTTCAAAG TTGGGCCATG GTTCATTAC AGTTTGTATA
TTTTGAGGAC ACCAATAAAA AG

SEQ ID NO:705: (Length of Sequence = 229 Nucleotides)

GCTGCGNTC ATAACAGCTG GACTCACGCC GNTGACAGAG TCTTGATCAG TCCTCTGGGA ACTAGACGTC AGGCTCACAC
CAGTGTCTGC GCTGATCTGG GNCITTTTCT CCTCTGCTC ACCAAGGTCA AAGACAGGTT TGATTACTTC AGGCCTCTGT
TTTTCCAAAG NTTTTTGCTT TNNCACTTCC TGGTGCTGT TCCACAATTC AATAGATGCT ATAAATTT

SEQ ID NO:706: (Length of Sequence = 255 Nucleotides)

GAGGACTGIN TACCTCAGTC CTCTCTTAA ACTCCTCAGC CTCCAACAG GGGCCTCCTC ACCTGGGTC TGAGTGTGTA
CCCTTTTtag AGAGTGAGAT GCCACCCGGG CAGCACTCGT TAAAGCTGGC CAGCACGAGT GACTAAGGGG AGAGAGCATG
ACATAGACCT GGGTGGCAAC GGGGACCTCT GGAAGCAGGT GGGAGTAACA NAGGAGAGGG CAGTNGAGGG TAGAGGAAAA
GGACCTCCAG AGGTT

SEQ ID NO:707: (Length of Sequence = 324 Nucleotides)

CCNGAGTGT GCCACTGCAC TCCACCTTGG TGACAGAGTG AGACTCCGTC TCCAAAAACA AAAAAACAA AGTTGAACTA
TAAACTGAAT TCCTCCCAAG GTTAGTTCAG CCTATGCCCT GGAATGAACA AGGACAGCTT GGAGGTTAGA AGCAAGATGG
NGTCAGGCCA GATCTCTTTC ACTGTTAACA TTTCTCAGT TATAATTTTT GCAAATGTGG TTTCAGTCCC TGCATCCATA

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ATACCTAGAA ATTTTGATAA ATACTTGTTA AACAAACAAA AATAAAACAT CCACAGCAAG GANTCGACTA TAAGGCGTTG
GTCG

SEQ ID NO:708: (Length of Sequence = 325 Nucleotides)

GGGCTCATAC ACAGTTTTAT TTCTGTGA TTTTACAGAC ACTCCATCCT GCAAGCCCAT TCCCTTGGA AACCAGAAA
GAGTGGGCAC AGTGCTCCCT AGAGGAATAG AGGGGACAAG ATGGCTGCCA GGGAGAGGGC AGTTGAGGCA CTTAGGGATT
TACTCCGGCC CTGATGGAAG ATCTGGTGCC CAGGGTAGGG GGAGAGGGCC TGGGCTGGGC TGGAGCCTCC TAGGTATTTT
CCAGAAGCCC CTTCAGGAAC TGTACCTGG ACTCCAGCAC CACCCTCGT CATGTTGTCA CTCTCTGTGG TGGCGGGAGC
GCAGG

SEQ ID NO:709: (Length of Sequence = 264 Nucleotides)

GGGCCCCGTT GCATGAGGCA CTGTGTCAA ATGAGCAGAT ACGTATGAGC ACTGAACCTT TGAGTGAATC AACCAGAACT
AAGACCCAGA TCCACGCACT CAGGAACCTG CTCTGAATTT CAGTTTGACA ACAGAGAAGT AGAATATTTT TAATTAGCTA
ATATATATAC ACATTTTTTA ATCATCCAAA ATTACAGGCA AATCACTTAA GGTCCCCAGC ACTTTACGNT GNAAGGTCAG
AGAGANCCCC ACAAAAAAGG TGTT

SEQ ID NO:710: (Length of Sequence = 366 Nucleotides)

ATTTTTATTA TATACATATC AGTACTCACA ATACGTGCTT TATTTAAGAT GGCTGTTTAT AAGTATAAAG CAGTTTGAGC
AACACTGATT GTGCATTATT GTACTTCAGA TGAAAAATCC TTACATGCCG AATCAATGTC TTTTAAAAAT TCAGATAAAG
AATTTCATT TGAGGNGACA TACAATTGTA AGTGCTCATT TTTTGTCAT TTTAAGACAC CATTATGTGT AAGANGGATT
AATTTTNCCT TAAATTACA AACACCTCC ATGCTCTGAC ATTACATGG AAAGGGCAGC ATAACCATTT AATCATCCAA
ATGCATATCA GAGCAAACTC CTAGGGCCTT TAGGTGTGAG GGTGGA

SEQ ID NO:711: (Length of Sequence = 216 Nucleotides)

GAAAAGCAGA AAAAAGTGGG GAAGATTTTC TATCTGAAC TTGTGAGCTG GAGAATTACC ATTAGTAGCC CACTAATAGG
TTATGGCCGA TGAGTCCCTT CATAACACAC TGAGAGCCAC TTTTGACACT CCCAGAAAAG GCAGGTAAAC AAAACCCCTT
GATGGAAGCT TAGACCTCA TTGCCAGTG TACCAAGCC TCTTTGAACC TTGCCT

SEQ ID NO:712: (Length of Sequence = 276 Nucleotides)

ATTTTTTTCC CATAGCACGT ATCACTCTCT CATGTGTAC CTGCTACACT AGAATTATGA CCCCTAAGAG GGAAGAGACT
ATGTCAGTAT CATGTATTCT NATTAACACC ATTATTTAGA ACCATGCTTG GCTTAAAGTA GTAGCTGCTC AGTAAATATT
TATCTATGIG TGAATTTTA AGINCCTCTT TTATATTGAN TTAATATTAG TCTCTGTGT GCAGCAGTCT GGGTTTGTCT
TATGTTGAAA TACTTATGTA GACTTCTACA TACATT

SEQ ID NO:713: (Length of Sequence = 354 Nucleotides)

AAACTTTTCA ACCTGCACAT TTGTTATGCA TACTAAATGG TGIGTTAAAA TTAGGGTTTC TTGCTCTC TACACTACAC
TAATCTGCCT AAAGGTGGTT GTTTCATAAT TATAATGCTA ATTATCATAC CTACCTACTT TAAATTTTAG GTAGAAAATT
ATCTGATTTA AATACAAACA TATTTTCTC ACATTGAGTA ATATGCATAA TGTAGTTCCA AATGTATTTT ATTACTATAG
TCACAATATC CAACTAAAAA TTACGCTATC TAGAATTGTA CCANCCAAAA TCTCGTATTG GCAGATCTTG ACAGGCTGGA
CCTGCAAGNA TGTGGCTTGG AATTTTAAAC CCAT

SEQ ID NO:714: (Length of Sequence = 349 Nucleotides)

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CAGTAATTCT CTTACATCCT TCCCAAAAAT CAGTGTCTAG GGACTAGTTG ATCTGGATGA GTTATACATG ATATTTGACT
 TTNCATAAGT AGTGGGAGGT TTCACTAAGT AAAGATCTGA GTTTCITGGT ATCTGACGTT TGTATACAGA TGGTGTCCAT
 TTGCTCAACC AGACAGGAGT TAACTTGTAT TAGAATTGTT TTINCTAAAG TNATGTTACC TGAGAAATTA AGGACTGCAC
 CTGGTTTAAAT GTTGCCTTAC TTATCCCACC CTACAGAGAC CAGCAAGGTT CTGCCAGGCC TCGAGCATCC AAGCATGATT
 TTCTGTGAC AAAATCTAAA AATCCAACC

SEQ ID NO:715: (Length of Sequence = 302 Nucleotides)

ATATTTGAAA AGATCTTCAC CAAAGATATA TGGATAGTAA GTAAATATAT GAAAGGTTTT CACTGTTAAT GATTAAAGGA
 AATGCAATCT TGTACATGAA TGTTTATAAC AGCATCATTC ATAAGAGCCA AAAGGTAGAA ACAATCCAAA TGTTTCATCA
 CTGATGAATG ANIACACAAA ACATAGTATT ATCTATATAA TGGAATATTA CTTGGCCATA AAAAGAAATG AACTGGGCCA
 GCGCAATGA CTTACGCTG TAATCCCAGC ACTTTGGGAG GCTNAGGTGG GCGGACTGCT TT

SEQ ID NO:716: (Length of Sequence = 314 Nucleotides)

GTATTTTITAG TAGAGACGGG GTTTCACCGT GTTAGCCAGG ATGGTCTTGA TCTCCCTACC TCGTATCCG CCCACCTGG
 CCTCCCAAAG TGCTGGGATT ACAGGCGTGA GCACCTGCGC CCCACCCCAT TTTGGTGTGA TCTCAGCTCA CTGCAACCTA
 CCCCCTCCAA GTTCAAGTGA TTCTCCTACC TCAGCCTNIT GAGTAGCTGG GATTACAGGG GTCTGCCACC ACGNCTGGCT
 GATTTTCCTA TTTTINAGTTG ACACTGCATT TCACCAGNT GCCCAGGCTG GTCTCGATCT CCGTACAAAG AGGG

SEQ ID NO:717: (Length of Sequence = 279 Nucleotides)

ATAAAATGC TACAGATTTT TGTATGTTGA TTTTITATCA TGCAATTTCA CTGAATTTGT TTTTCAGTTA TAACAGTTTT
 CTTATGGAGT CTTTGGTTTT TNCCAAATAC AAGATCATAT CATCTGCAAT CAAGGATAAT TTGACTTCCT CCTTTCCAAT
 TTAGATGTCC ATTATTTTTT CTCITGTCTG ATTGCTCTAG CTAGGATTTT CAGTACTATG TTGAATAACA ATGGTGAAAG
 TGGGTATCCT TGTATATTC CAGGGTCTTG GAGGAAAGG

SEQ ID NO:718: (Length of Sequence = 161 Nucleotides)

AAGAAAAAA CATAAATAAT ATTAGAAATG GAAAAGTTAT AAATCAACTA CAGCAAGGNT TTAAACTAT TATGAAACAA
 ACCAAGTAGA AAGTAGATCT GCCAAACAA AAAGGAAAGA NACTGTTTCT TTCATAATA ANTGACAATG GGGGAAAAAG
 A

SEQ ID NO:719: (Length of Sequence = 220 Nucleotides)

GACAGAATTT TTTTTTTTTT TTTTTTTTGA GACAGAATCT CGCTCTGTCA CCCAGGCTAG AGTGCAATGG CGCAATCTCG
 GCTCACTTCA ACCTCTGCTG TCACAAATAA ACATCAGTAA GAGCCAGCAG TTGCTCTAGG ATCTCAGTCA GCAAGCTTGG
 GGGCTGTGAG GAAACCAACA GTCACTGTGT TCTCCCTCTC CCAGCCAGG GCTGACCCCT

SEQ ID NO:720: (Length of Sequence = 347 Nucleotides)

AGAAATGAAA GCTACATTAA CGAAAAGGA ACTTAGGAAT GAGGTCAATTA AATATAACTA ACTACATTTT AAATACGGAT
 ATCATATATT TCTGATTAG TATCAGGTAA ATATCTAGAC TCCTATCTTG AATTCGGTTC TCAGATAAAA AGGTTCAGAGA
 CAATTACAAG GAAGATGCTT CATATTATCA GTTCAGTATA TACCTAATTA TGTGCACTGG AGAGTAAITTT ATTCTTCATT
 ATCATTTGTA AACATTGTTT TTTCACATTT TTGTAGTTGT CCATAATGTA AGCTTGTGGG TTTGATTATT GTTTTCCACA
 CTGGATCCAG CTGGTTTAAA CCTATTT

SEQ ID NO:721: (Length of Sequence = 313 Nucleotides)

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AAAAGATTG AACAGATAAT TCATCCAAAA AAAATATGGG TGGGAAAAAA AGCACATGAA AAGATGCTCA ATATCATTAG
ACATTAGAA AATATAAATT AAAACCACAA TGCAATATCA CCTGTTATCT ATTAGAATGT CTAATATTAG CAAGACTGGC
CATATAGAGT GTTGGTGAGG ATGTGAACAA CTGAACTCA TACACAGTGC AGGTGGAAAT GTAAATGATA CAATTTTTTT
GGAAAAGAGT TGGCTGTTTC TTCAAAAGTT AACATTACA TCTGCCATAT GNTCCAGACA TTCCACTCCT AAG

SEQ ID NO:722: (Length of Sequence = 266 Nucleotides)

ATCGTCCAC TGCATGACAG CCTGGGCGAC AGAGGAAGAC GCCATCTCAA AAACAGAAAA AAAAAAAAAA AAAAAAAAAA
AGTGCAGCTC TCTAATTGGG CTCITTTACT TACTATTAT ATAATAAAG CCACGTTCTT AGGCTGTATA ATGGGGTTAA
TCATAGTAAG TACCTTGTA AGTTACTGTG ATAACCAAT AAGTGANCAT AAGTAAAGCA TTTTACATGT GTGCAGCTTA
ATAAGTTGGA GTTGTGACTA TTATTT

SEQ ID NO:723: (Length of Sequence = 370 Nucleotides)

ATTATTCATG AATAATCCA TGTAACATCA CTTAGCACTG AGAGTTAACA AAGGCAAATG TTACCTGAAT AGGAGGAAAC
AGAGGAAGAA CAACGAGGTC TCTTTTATCT ATGCTAAGCT TTGTCTGAAT AGGAGAGAAA TGTGTGGCCT GTTGGTGAAT
TTATGCTTT GTGGTAGTAA TGGATTTYCC TAAAGCTGTT TCCCTCTGAT CATTATAAT CCCGTACAG CAAAGGACTA
TTGTCTTTG GTATGAGTAA ATAACCTGT TGAAGCACC GCATTCTTC AGACCACAGC GCATACTTCT TACTGGAAAA
TATAATGCAG GTGCCAACAC CCAAAGGGCA TGACCAGGG TTCCCTTCC

SEQ ID NO:724: (Length of Sequence = 478 Nucleotides)

GGACACAAC GAAGTGTGGA AGAAATGAAA GGGCGAAGGT GTGTTTGTGAG AAGGCTCTGG AAGAAAAGCC CAACAACCCA
GAATCTCCT CTGACTGGC AATTGCGATG TACCATCTGG ATAATCACC AGAGAAACAG TTCTCTACTG ATGTTTGTAA
GCAGGCCATT GAGCTGAGTC CTGATAACCA ATAGCTCAAG GTTCTCTTGG GCCTGAACT GCAGAAGATG AATAAGAAG
CTGAAGGAGA GCAGTTTGT GAAGAAGCT TGGAAAAGTC TCCTTGCCAA ACAGATGTCC TCCGAGTGC AGCCAAATTT
TACAGAAGAA AAGGTGACCT AGACAAAGCT ATTGAACGT TTCAACGGGG TGTGGAAT CCACACCAA CCAATGGCTA
CCTCTATCAC CAGATTGGGG TGCTGCTACA AGGCAAAAGT AAGGCCAAAT GCAGANTACA GGGGATCTG AAGCTAGT

SEQ ID NO:725: (Length of Sequence = 356 Nucleotides)

GACAGAGGAG AATAAATGGA ATAACTTAGT TTTGTGAAG ACTCACAGTA TCACTTGGTT TCTGGACAG GTTCGAGACC
TGGCTGTGGC TTGCTGTGGC CTTGAGAGCC ATCCACAGC AGCAATGCTG TTGGACCCCT TGGCTGGGAC CTTGAGACC
CCCTGCAACA GCACTGTGTA CCTAACCTGC TGGCATGATG CCCCTTNTT GACAGGGCTG CATACAAGGC CAGCGACAAG
TGGCAGGCAG TGACGCCAGC CTGGATTGTC TGAGGGCACA CGCCATGCTT CCGCAGTGC CAGTGCTCTT CTNGGTCCAC
TTTGACAGCA GGATAGATGT GGTCTAGAT CCAAGA

SEQ ID NO:726: (Length of Sequence = 387 Nucleotides)

GTGGTAGAGT AAATCCTATT ATATCGAGAT ATTGGTCAGG CAAGAATTTT NCTTTTAAAA TAATTTATTG TAAATGAACC
ATAAAATTTT NACCTTTGTG CCATCTTCTA GGCTATAAAA TAGTCTTATA AAGAATCAGA TTGTTAAGAG TATATGAAAT
GTGGATATGG ATGTGGAAGA TCCATAACGA GGATGATGAA AGCATTAA GAAGCTTCTT GATGGGTACA AAAAATAGAA
TGAAGAAGAT CTAGTATTG AGAGCACAAC AGGGTACTA TAGTCAACAA TAATTTATTG TGCATTTTCA CATAACTAAA
AAGTATAATT GGGATTGTAA CAGAAAGGAT AACTGCTTTG AGGTGATGG ATACCCATT TTACCC

SEQ ID NO:727: (Length of Sequence = 348 Nucleotides)

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CCTTTAAGC AGCGGATCCC CTGGTCCCCA CCCCCAACTT TATATTCATT AGGCCTGAGG TGGGGCCTGG GAATCTGGAT
 TTATAAATTG CTCCCCATATG ATTCCAATGC CAGTGGGTTT TAGACCACAT TTGAGAAAC AGTGCCTGTA ACTGTTTTC
 ATTTGCAGTG AAGGAAAATG TAGGGTTTGT GTCGTGAAAC TATGCAGAGA AATTGAATAG TATTINAGTC TAATCTTGCT
 TTTAAATAAC ACGGAAATTT TGAAAGTCGG CTTTAGGGAG TTCCAGAAC TGTCCATGAA CAGCAACAAG AAAGATCCCN
 GTGTGAAAT GAACACTGGT TGGTAAAA

SEQ ID NO:728: (Length of Sequence = 305 Nucleotides)

TGTTTATTA TAATCTTATA CAGTCTACAT AAATTTGAAC TTGTATTTAT TTGGGTTTCAG TTATAACATA GCATAATAAA
 AATCAAGCA CTGGTCTCT GAAATAAAGC AGGCAATCAC CATTCAATAA ACACACTTGA TTTATTTTGT ATAAAGGGT
 TAAGTTACA ACTAACTTT TATAAANGT TTAGCATGAA TAAGTACATC ATTACACTTT TGAATGCAGA AATAGACATC
 TCTGCCACTA TACAAGAAA CTCTAATTAA AGAGTTCACA AGGTTTCACT CAAATAGATA TATTT

SEQ ID NO:729: (Length of Sequence = 383 Nucleotides)

CAGACATTT ATTTTCTAT TTCCATGAA GAAGGAGAGG GACAATTTTA GATTCACCAG TGTGCAGGAC AAATCTTAC
 TTAACTATA GAGGAGCAA CTTCTTCAA ACACATTACC AATACAATTG TAATACTAAG AATCAATACC ATAGTTCTCG
 ATGTAGCATG ACTACAAAT GTACAGTAG ATTTTGATG ACTTTACCAT AGCCACACTT AATGAATTAT TATINATATT
 NCTATTTGTA CTTAATAAAA ACTATATTTT AAACTTTAAA ATTGTCAATT AAATTACTAA AGAAAATGAG TAGTTCCTAT
 AATGATCCA TAATGTTANG AATTTGCTTT AGCAAATGAG GACTATATTC ACCTANGCTT TTG

SEQ ID NO:730: (Length of Sequence = 311 Nucleotides)

CTCTTTATTT CCTTAACCTG CTTAACAAA GAAAGAGTCT CCAAAGTTTA AAAAACTTT GAAAAATATA CAGCTTGATA
 TTATTACAT AAAATATGAN TCCAGGTTCC AATATCAAAC AAACATTGCT ATGTCAGAAA CACAGTGGAA GGCAGGAACG
 TAACCTACTG CCTTTTAGAT GCAAAGACTA ATAGACACGT TCTCCNATCT CGACTATCTT NGTTACCTGT TATCTCTANA
 ACATAATTA TTANGGCACC TENGAGGTTG GATGACTACC GAAAATGNC TTCATACCTT CTGTATGATT A

SEQ ID NO:731: (Length of Sequence = 349 Nucleotides)

AGGGAATGC ACAGAATCT ACTAAAATA CAGCAAAATA AGAGAGCATG AATTACATAT CAAATTATTT AAAGCAAATA
 ATTTTACAAA TTCTGGGAC AGACAGAAAG CAGATGAGTC TACCAAGAAG GATAATAAAC AATGACACCA GAGAAAAACC
 ACAACCTGAA AACTTAAGAA AACTGCCATA GAGGTGTGAG CCAGAGCTCC CAGGAGCCCT ACAGTGTCTC AAGCTCAGAA
 CTGGCAGTA TCAAAGTCAA GAATGCTATG GGGTAGCTAG GCCTCTTGAC TTCTCTTCT CTCTCCATTC ATAGACAAGA
 AAGCATATCT ACCTTTAGGT GGCTAGAA

SEQ ID NO:732: (Length of Sequence = 370 Nucleotides)

AAATTGTGTC CTCTAGCCTA GAAGCAATCA AACTCCAAC TTGTCTGCTG ACTGANCTAC GCATGGATAC GCCATTCTTC
 TGAGGCCCT TAGACCAACC CCAGGAGGAG CCTGACTTC TGTTCCTCAT TTATGCCCC TTTTCAAGCA GGAAGTAGCC
 AGAAAGATC ATTGCCCAA ACCACCTAAC AGCAGTTGGG GTGACGTCTC CACAGGGGGG AAATGTTATA GGAGTTATTA
 AGAAATATC TTAGGCAGAT AGAGAGCAA AGGGGTCTTT GGGAATTTT TGTTCCTTTT AAAGTAGCTG CAGAAATGTT
 TCTTGCTAG CAGGAAAAGC CCCAGCTCTT TAAAGCTGGG GCCAGCAATC

SEQ ID NO:733: (Length of Sequence = 357 Nucleotides)

TTTTTGGTG TGTAGAGACA AGTCTTGCT ATGTTACTAA GGCTAGAGAT CCTTTTAAAA TGCTTTCTG CTAGGTGTG
 GGGCCCTAC CTCTCTTTG TTCTCTCTC CTCTCCAGC TTCTCTGGAT TCCATCTGTT TCTTATACTG AGAAGTTGCT

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TACCTAGCTA GCCCTCAACC TCTTTGTTT ATGAATGGAA AGGCTGGGAC CCAGACAGGG CAAGTGACTC ACCCAGTGTG
ACAGAGCTGT TAAATGGCAG AGCATGATTG AATCGGGCCA TGACTACTTT CCTACATGAC ATATTGAAAC CAGTTTGAGG
CCTCGGTTTC CTCTCTNGCA AACAGAGAT ACTAATG

SEQ ID NO:734: (Length of Sequence = 374 Nucleotides)

TGGTGAAAGA AGAGAAGGAA ACCTTGGTCT GCATGGCACT TGGTACTTTT GTATTGCCTC CATGCCCTCC ACTGCAGCTC
CTGCCCTGCT CTGTGTGCAT CCCTCATGAG ACTCAAGACA GATAACCTCT CCTTGCCTTT TCATGTCCCA GCCCTGGNTC
TTGGACTCAA CCATCCATTG CATCCCCATG GAGGATCTGT CCAGTCCCTCA GGACTCAGGA GCAACCCAAG GATGTCCAG
GGTCACAGGA AGACTTGTG AGGGGACCCA CAGGGGTGCC CACAAATTAT CAGTCCATGG AGAAAAGTAG AGAGGGAGGC
TCAAGGACCT CAGCACGTAA GGGACATTTT GAATTCTACA AGTCACGGTG GGAT

SEQ ID NO:735: (Length of Sequence = 348 Nucleotides)

CCCAGCGCCT GGAGAGCCAG CCCTGCAGGG TGGGCTGGGG GAGCCAAACT GCGTTCCTGG TGCAGGGCTT CGGGTCTCCC
TAACAGACCT TATACGCTGA CCGGCGGCGG CCATGGCAGT GTCTCTTTGC TCAGACATCC AGGGACGACC ACATTGTGTC
AACAGCGGTC GCTCCACCAA TCCTGGGAGA AGCGAATCGT TTTCTCCGGG TGCCCTGTCA GCGGCTCATG GTGCCAGAG
AGGAATTTTA GTGGCAGCAT TCCGGCTGTC ACGCCACCGA AATTGCCAGG NCACTCCAAG TCAGAAGGAC CACCAGGAAA
AGTCAGGAAG AGAACCACCC ATCAAGGT

SEQ ID NO:736: (Length of Sequence = Nucleotides)

ACACTCTGA CCTCAGGCAA TCCTCCACC TCAGCCTCCC AAGTGCTGG GATTACAGGC ATGAGCCACT GCGCCAGCC
TACACACT CTTAATAGAA GAAATGAATA ATCAAAAAT ATTATGTTG GAAAAATGT TTGAATCTTA TTTTAAAAT
AATTACGNT TTCAATAGGC ATGTTGAACC TTTTTCGGC TACTGTTTC AGCAATTGCA GTTGAATGAG TACAAAATGC
ACCACAGAA AGAGACTGCT ATCTACCCAA ATATTGCTGG TTGTGAATC CATGGTAGGG AATTINCATG TATTGTTACA
ACCNGCTATA AATACATCCC AAAATATGTG TAGAGCTAAA ATAGATG

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SEQ ID NO:737: (Length of Sequence = 243 Nucleotides)

TTAATCATTC AAATTCATT TTATACAACG AGTGATACA CCACTGGGGG AGTNTCTGAC TGATGCGTGG GAGGGCGGGC
GGGGATGCT NCAGCTATGA GTAGGGAGGA GGCGGGGAAG CCCTGGGTGC TTCTCTCTCT CGACTGACCG CTGTGTGTTT
GTCCCAGAG GAAGAGCGGN NGGCAGTCAG CCCCCGGGGG GATGGCAGAN TGGAGAGACG GACCTGCAGA AGTGGTGGCC
AAG

SEQ ID NO:738: (Length of Sequence = 358 Nucleotides)

CGAGTCAGAG CTGGACAGCG GCGATGCCAT CTTTACATGG CCAGACCGAG AGAAGGGCAA ACTCCTGCAT GGTGAGAATG
GCTCTGTACC CAACGGGCAG ACCCTCTTNA AGGCCAGGAG CCGCGGGGAG GAGATCCTGT AGCCACCTGG TCTGTCTCCT
CAGGGCAGGG CCCAGCACAC TNCCTGGCCA GTCTCTTAC CTCCCGAGTN TGCGGGCAGC TNCGTGCCA GCATCTGCTG
GTGATTTGCG CCGTACAGTC CCAACCAGAA CCGCTNGGGA CTGGAATCCA GAGANGTCTT CCAGGNAACC CCTCAACGAA
GCTGTGAAAT GAAGAGGTTT CCTCTTTAAA ACTGGTTT

SEQ ID NO:739: (Length of Sequence = 400 Nucleotides)

CATTTCTGGC CAGGCACGGT GGCTCATGCC TGTAAATCCA GCATTTGGG AGGCCGAGGC AGGCGGATCA CGAGGTCAGG
AGATGGTCTA GACCATCTG GCTAACACAG TGAACCCCTG TCTCTACTAA AAATACAAAA AATTAGCTGG GCGTGGTGGC

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GCGTTAGTAT TTCCTTAAAT AACAGGTAC AATAGAAAGA TACTGCCTGG AAGTTATCCT TTTCATTTTG GTTCATTTTC
 AGTTTTTGT TATGATTTAC ATAGCTGTTT AATTCAITTTG CTTATAGTAC AATCCTGCCA TAAAGTATTA AAGCACAAGA
 TACCTGTAT TCCCTCAAC ATCTGCATTT TTCAAGNTT TTATACTCTA TATCCACAGT ATGTCAGCAG TTCTTGACTG

SEQ ID NO:740: (Length of Sequence = 374 Nucleotides)

ATCGTCAGAT TCACCAAGGT TGAAATGAAA TAAAAAATGG TAAGGCGAGC CAGACAGAAA GGTCAAGTTA CCCACAAAGG
 GAAGCCCATC AGACTAACAG CAGCTCTCTC GGCAGAAACC CTACAAGCCA GAAGAGAGTG GGAGCCAATA TTCAACATTC
 TTAAGAAAAA GANTTTTCAA CCCAGANITT CATATTCAGC CAACTAAGC TTCATAAGTG AAGGAGANAT AAAATCCTTT
 ACAGNCAAGC AAATGCTGAG GGATTCTGTC ACTNCCAGAC CTGCCTTACA AGAGGTCCTG AAAGGANGCA CTAAACATGG
 AAAGGNAVTA ACTGGTACCA GNCAGTCAA AAACATACCA AAATTGTAAA GGGA

SEQ ID NO:741: (Length of Sequence = 290 Nucleotides)

AATTATTTCA TAATAATGTA ATAAACATTC ATGAACATAC CCTATCAAGC AAGAGCTAGA ACCTTGGCAA TCATTTCTTT
 GACTCCITCA GTTGTGGCT ATCATGATAT TCAGCCCCAA GTTCATCATT TCTGTTTTIN CTTCTATACA GGTTCCTTAT
 ATGTATTTCT AAAATCAITT GGTATTTCA TCTTTGTAAG AAGTCATGT NCTATTTTCC CCACTAGTTC TACATTGCAT
 TCATATTGTT GTGGGTTGTC GTAATTCATT NATTTTGAAT GCTGTATAAT

SEQ ID NO:742: (Length of Sequence = 274 Nucleotides)

TTAAGAGGAA AAGTATCTTT AGGAATTTNT TTCTATAGAG TTCTTCATTA ACATTTATAC GAGTTTTTTG CTGAGTCAGA
 TGGACAGTTG GGTTCGATG CTTTTCCTT CCCGCTGCC AGGCTGGCCC AGGCAGTCT CCCACCANTC TATGAGCGTN
 TCCGGGGCCG NGGATCTGGG CAGCATCCAT GTTGCCGGGG CCATCCCCAG CGNACCACA AGGTNGCAGC GTTGNTCCAC
 GAAANACCGN CTTCCGCTC TGCTTCCCCA AAGG

SEQ ID NO:743: (Length of Sequence = 398 Nucleotides)

TTGCTTTGCA GTTATCTGGA ACTCCTCGTG CTCTTTCAGG AGCTCCTGGG TGTCCTGTAT ACTGGAGCCC GTGGAGGTGT
 GTGTGGAAAG GTAGAACTCG CCATTGTCAT GGATCCATTC CAAAGCCTGC TTGGCACTCC TCTCAAAGAC CAGTACTGC
 TGACACTGGT CCAGCCGTCT CTTCCTCATG GTCCAGTAAT GCAATACCTT GTTCTCCCGT TGGAAGAGTT CATTCAGAT
 ATTTTTCATCT TGCTGTTCAG GAGCTTTGAT GTGCGTCACC ATTCTGGCA TGTTCAAGCT GTTCTCTGTG CAGGTATTTT
 AGGAAGACGT CTGCATTTCT CCGAGCAAGN GGTGCAAGCC TTCAGGAATG CCTCCTTTNC TNCAGGGTGC GGTTTTCA

SEQ ID NO:744: (Length of Sequence = 359 Nucleotides)

TGCGACAGAG TCTTGCACTG TCACCTGGGC TGGAGTGCAG TGGTGCAATC TCAGCTCACT GCAACCTCTG CCTTCCGGGT
 TCAAGCCATT CTCCTGCTC AGCCTCCAG GTAGCTGGGA TTACAGGCAC CTGCCACCAT GCCAGCTAA CTTTTGTAT
 TGTTTTTTTT AGTAGAGATG GGGTTTCACT ATGTTGGCCA GGCCTGCTC AACTCCTGA CCTCGTGATC TGTGCGCTIN
 GGCCCCCAA AGTTCCTGGA GTACAGGCGT GAACCAACCGN GNCCTGGTGG GGCTGCTTAT TTAATCCCC TAGAAGAGG
 GATTCTNCAG CTACACCACA CCTTAACIT NGAGGACC

SEQ ID NO:745: (Length of Sequence = 361 Nucleotides)

CCCTTAATTAA AAAGTTTTAT TTTTAAAAA CGTAACAGAC CACTCTAAGA AACTTTGGCA TTCAAAGCAG TAGTTACTGT
 TATTTGCTAA CTCTGAAAAA AAAATTTTNC CCTCACAATA CAACCGGCAA ACTCCTGCCA CTTCTAGCT TGTGGCTGC

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CAGCGTGCAC TGCAGGGAAA CGGTGGGTGG AGGGATAGGA AGGCCCTCAC GCTCCCAACC CACGGAGAAA NTGCAGATGG
 TGACAAGCTG CATCTGGACT CCAGGNTGTA TCTGACAAAG AGGGAGATGG TNCCTCCNT CCCCTNCACC AGCTCCACTT
 TTNCTGCTGA AGAAACAGAG ATGTGGAGGC AGGCGTGACC T

SEQ ID NO:746: (Length of Sequence = 285 Nucleotides)

GIGTTTTTAT TTATACCTAC AAAAAGAAAA CAAGATGATG GTATCAAAAG GACAAITTTAC AAATAAGAA TAGTAACATA
 GCTTTCAGCA TCCTGTGCCT GAACATCACA CATCTACAAG TCITTCAGN CTTAATGCAA CAGGAATNTG TCTGGAGACC
 AGCAAGANCA TCAATAGAGA GCACTGNTCC CAAGCAAAAG CCACTAACCT TTTAGATGAG AAGTCCACAC AACGGATTNT
 TAGGGGAGGA TTTGGGNGAA GCAGCCCAT TGTCTAATAC ATTGG

SEQ ID NO:747: (Length of Sequence = 302 Nucleotides)

CAATGCAGTT TTAGAGTGCT CATCTTTCA ACTTATTTGA CAAATATTTA CTGAATGTCT GCCATAAGGC AGTAAAGGCA
 CAGAATGACT CAAAGCCTTT TNCCTTAT GGGGTGTAAT TNCTAGTGGT GGAGACAGAC AATGAGCAAG TAAACAATCA
 ATCGGCTAAT GATACTACT GTGAAGAAAA TAAAGCAGCN CAAGGGAATA GAGTATGCCA TCATTAAGAC TGGTTAGGGA
 AAGCTTCTTT GAAGACATGG CAGCTATTGA AAACCTGACT GATACAAAGA AGCAAGTCAT GT

SEQ ID NO:748: (Length of Sequence = 346 Nucleotides)

GAGACCAGCC TGGGCAACAC ACTGAAACCC TCCTCTCTAA AAAGAAGAAA AAAATAAGAG TTTTGAGTTT TTCCAAAGAA
 GAATGCTCAG TACGTTTGIN ACTATCAGA AAGAAGAATC TGAGGTCTCT GACGTGTAAA CAGAGTGTG GGTACCATCT
 CACCAGAATT GCTGCCCTGA AGCCAAAGGA CTGAGCTGCT CAGATCTGGA AGTAATCTGA GCCCCATTT CCAAGAAGAG
 AATTGCAGAA TTTTATAGGA AGAAGGGACC TGATCCCTGT CAATGGAAGC ATTTTAAAT TTTTAACTGA AGTTCAGGA
 GCATACAAAA AGCCAGGNA TTTACC

SEQ ID NO:749: (Length of Sequence = 325 Nucleotides)

CTAACTTTA TTTTCAAAAG CTTAAGGCC AAATACAAAC TGAGGTCTTC CTTCCTAACA AATTAATACT AAAATGAAAC
 AGCTTTTNTT GTGTCTTAA GACAAAATAA GGAAGGAAAA CGTAGCTGCA GTGTCTCCAG ATGGATATTG GTCTTTTAA
 ATATATCTGA AAGTAGTAGT CAGAAATGANT TATGGTTGGA AAAGTGAGCN ATCTTCTGGT TGCAGGTGCA AAGTAGCTTT
 NTTTTATCTT GTCTAGTCT CCTTGATAGC CACTTCATC TGCTACTACT CAACTTCTC CTAAAAATAC TTCATCTATT
 TTCAG

SEQ ID NO:750: (Length of Sequence = 341 Nucleotides)

TGTATTTTNA GTAGAGAAGG GGTTCGCCA AGTTGNCAG GCTGGTCTCG AACTCCTGAT CTCAGGAGAT CGGCTGCCT
 CGGCTCCCA AAATGCTGGG ATTATAGGCG TGACACTGTC TCTGGTTTAA GAGAACCATG GGCTGAGATA TINAGGAATT
 CTCAGGCCA CGAATCTGG GGCATGCAGC CTCTCCGTA CCCACAGCA TCINGGGAG CTGGTGTGCT GATGGGGTCA
 GCTCTCCAG CTGCCGGA AATTCTCAGA CACTCCCTAA GAGGACATCT CCACCCCTNC CACTCTNACG TCACTGCTTT
 CTAACATTC TCATTGTGTT G

SEQ ID NO:751: (Length of Sequence = 377 Nucleotides)

TTTTTTGAGA CGGAGCTNG CTTGTACACC CAGGCTGGAG TGCAGTAAGC CCATCTCTGC TCACTGCAAG CTTACACCAT
 TCTCTGCTT CAGCTTCCA AGTAGCTGG ACCACAGATG CCCGCCACCA TGCCCGGCTA ATTTTTTGTG TGTGTGTTTT
 TAGTAGAGAT GGGGTTTCAC CATGTTAGCC AGGATGGTCT GGCCCTCCAG CTTCCTCTGA GTCCCTTCAT AAACATTTGT

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TTATCTTGTA AAATAATTG TTCCATTTCT AATTAGTACA TAATGAGAGA GGCAGTGTGA TGGTTTGTGC CTAAGNCCTT
TCTTGCCAAG ACITTCAAAG CCAAAAACCTT CANCAGTTTT CCTAGATGAC TAGACAG

SEQ ID NO:752: (Length of Sequence = 359 Nucleotides)

AAGTCAGGCG TTCTTGGGCG AGCTGTCTG TGAAGTTGGT GGGACGTGCT ACCCTGGGCC AGCTCCAGGT GAGCNITGGCT
TCGGTGGTCC CGTGGGCTC CTNAGTGGCG AGGGTGAGGC CTGGCACTGG GCCTCTAACT GGCCCCGTGG CCCTGCAGTC
TTTNGTGTG GGTGCCCGCT TGCCCTTTNT CCGGCTGTTC CAAGCGCTGC TAAGCCTCAT CENCCCNAG TACTTTNACA
ANCTGGCGCC CTGNCITGGAA GCAGGTGAGT GGCCATCANT CGTGGTCATC TTGNCCTCAT NATCCAGCT TTGGCCCTG
GTGGGGCTCG GCAAGCAGCT TCTCCTTGGG GAGGTCTCT

SEQ ID NO:753: (Length of Sequence = Nucleotides)

AGCTTCAACT TGGAAAGAAG GATGATGCAG TTTTGGGCCC TCCGGCCATC AATNACCGAC AGCNCITTTGA CCTTGGCGGA
AGCCAGGIAT ATGINTTCAG TGGAGCCAG CTCITTTCTGG TGCCCTGGT AGGCTGAAAA CATCTTTTCA AAATCCTCTA
GGTCCAGGT CCGAAATACC TGCAATGTCAT CAATCTCATT CCATACGGTG CCAGGGACAC GCTCCTCATT CAGCTTCACC
CAGTTGAAGG ACTTCAGTGG GTGAGAAGGC TGGGGGACAC GCTTTTTCCT GAGTGGGACG

SEQ ID NO:754: (Length of Sequence = 342 Nucleotides)

CTGTGAAGT GCAGGTTTGA TCCAGCCAGT ATAGAACTAG CTCGTAGGG GTGAGGAGGA CTGNCITGTG TATCATCCTT
GATTGTNTTC CTTCAAGGAG CATTGCACTG TAAGTACATC AGAATGACAA ATTGATGAAC TGCAACAGTA TCTTTTGTG
AATGTTCCAC ATAATGCAAA TGCCATACGT TGTGTGAATA TTATGTTGGA ATACAGTGTG GATATCTTGG AAAACCATAA
CTGCCCTCTA ATTTAACATA GNGTAATACA TAGTNCITGA TTTTITTTAA AGTGAGCINT AATGGGNAAG TATTTTINAT
ATGCTTTAGC TATAGCTAAA GG

SEQ ID NO:755: (Length of Sequence = 321 Nucleotides)

CATGCCATC TTCTCAGTCC TTCTCCCTTT CTTTCCAAGT AGTTTAAGGC CTTAGGGCGA AGGTGGCTTT TATTTCTCT
CTTGGGGGAG GAGGGGGAGG GAGCTTTCCC AAGCACATCA ACCTAAGGAA GGGGTGGTTG CCCCCCAGC AGCGAGGGGC
TGGAAGTCT GATCATTCCG AAGGAAGGGT TCGTCTCTGT CCACCTTCTG GCCCTTGGCT GCAAGGGTGT GCTTNGCAGG
GGTCACTCCC CTGGGGGGTG GCAGCTCCTG CATCAGTNGA GGGCACAAGG AGGTATCTGC TGGTGTTCAC GAAGAGGAGG
G

SEQ ID NO:756: (Length of Sequence = 368 Nucleotides)

TGGCATGGTT GCATGTCCT GTAATCTCAG CTACTTGGAG GCTGAGGCAG GAGAATTGCT TGAACCTGGG AGGTGGAGTT
TGCAGTGAGC CAAGATGSCA CCACTGCACT CTAGCCTGGG TGACCGAGCA AGATTCATTT TCAAAATAAA TAAATAAATA
AATGAGAAAA AAATATAGAT ATAGTAAAGG GAACAATTAC ATTCTACAAT ATTTTAGCAG AAGTAAATAT GGTTTAATTTC
AATGGAACA GCTCTGCTCT ATNGAAAATT CACAAATATT AAAAATAAAC ACACCTTACA TTAAACCTCT GAGCACTAGA
NGCTTACCTA CTAATTCATA GGGCTCACAT ACTGTAAAGG GGGTAAAT

SEQ ID NO:757: (Length of Sequence = 339 Nucleotides)

CTTCCACTGC CAGGTATATG TCCCGGGAAG CCCCCACCC CCTCGNITTC CTCCTCCGCT TTCCCTAACC CGTCTCGGG
GGCATCTAC GNTCTGTCCT CENCTCTCT CTNCTCGAAC TCCCTTGTG CTGCGGCCGT GGCGTCTGG TACTGTGGT
ACTCGGACAC CAGGTGCTTC ATGTGCTCT CCGCTCGGT GAACCTCATC TGTCCATGC CTTNCCGT NTACCAGTGC
AGGAAGGCCT TCGNCGGA CATGGCCGTG AACTGCTGG AGATGCGCTT NAACAGNTCC TGGGATGGCC GTGCTGTTC
CGATGAAGGT GGCCGACAT

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SEQ ID NO:758: (Length of Sequence = 356 Nucleotides)

TTTTTTTGTA TTCTTTTGT ATATGGGTTA AATGTTTCCG TTATATTCC TAATTGGCTA TTGCTCGTAT AAATAGATGT
 GGTTTTAGGC ACATATTTTA TATCTGGCTC CTATACTAAA AATCTTTTAT CATTTCCAAC AGTTTTCAGT TATGCTCTTG
 GGTTTGAAGG TAGACAATAA TGTCATCTAC ACATAATGAT ACINCTGTTT TCNCTTTTTA AATGCTTATA GCTCTTTNAT
 TTTTATGCT TTGCTTGTG TATAAATNCT AGAATGAAGT TAAATAATCA TAGCAGATAT CCTTTTTCCT GATTTAATTA
 TAATGCTCCT GAAATTTTAT TAAGTATGAT GACTGT

SEQ ID NO:759: (Length of Sequence = 333 Nucleotides)

GCCATGTGGG GCGGGGAGG CGGTGGGTC GGGCGGGGG GACGGTCAAA GACTTCATAA ATAAGAGGCG GGTCCAGAC
 CCNCAAAATT GTCAACATGT CTAAATAGG TGCATTATT AAATCTTATG TACAACAAGA ATCACTTTGC ATAGCAATGG
 TGAGGACACA GGACGGGTGC AGTGATGTGA CTGGTCTTC TTGTCCCAAG GCGGGGGGC GAGTTCCAG CTCAGCTCGG
 AGCCTCTAGG AAGAAAGCAT CCTTCGTCCG GCCCGCAATN GTGGCATCGG AGTTGACTTT TCCACACGA CGGCATCAAN
 CACAAAGGCA AAG

SEQ ID NO:760: (Length of Sequence = 311 Nucleotides)

CGTCTCTCT GCCCAACCCG CCCCCACCA TTGCCGAGGA GGCTGAAGAT GGAGATGGGT CGGGCAGCAT CTNCGGTTCC
 ACOGGAGACC GCTTGGTGGC ATCAGCTTGC CCGGCCCGGC CGCAGATATT CCGCCCTCGA GAACAGCTCA TGCTGAGAGC
 CAACAGCCTG AAGAAAGCAA TTGTCAGAT CATAGAACAC ACAGAAAAAG CTGTCGATGA GCAGAATGCC CAGACCCAGG
 AGCAGGAGGG CTTCGTCTG GGGCTCTNIN AGTCAGAGGN GAAGATNGAC CACAGAGTTT GNCCACCACT T

SEQ ID NO:761: (Length of Sequence = 314 Nucleotides)

TTTTTTTCT TTTTTTAAAG AGACAGGGTC TCACTCTCTT TCCAGGCTG GAGTGCACTG GCAACGATCA TAGCTCACTG
 CATCTCGAA CTCTGGCCC CAAGGGATCC TCCCCTTTG GCTTCCCAA GCACTGAGAT TGCAGGCGTG AGACACCTCA
 CCTGGCTTGT CTGAGAACAT CTTTTAAAAA AAATCCCTTC TCTTGGGTTT TCTGTTACCC ATATGCTAC TCAATTTGGT
 TGCTCAGCT TTGTTGTGT AATGCAAAAG CAGCCATAGA CANTACATGC ATTGAATGAG TGTAGTGCAT TCCA

SEQ ID NO:762: (Length of Sequence = 319 Nucleotides)

ATAAAGGTAT ATAAAGTTG AAATTAAGAG ACACATATCA TGAAATACT AACAAAAAGC TATAATAGCT ATATTAAATAT
 CAGGTAAAT AGACTTTAGG ACAAAGCAT TATTAAGGAA GGGAAAGTTG CTATAATAAT AAAAGGTTGA GTTAATCAAA
 AAGATATAAT AGTTTAAAC ATTATGCATA TAATTAANTT CCTCAAAAT AGACAAAGCA CATATTGATA CTTAAGGNAG
 AAATTGATAA ATCCATCACC ACAGTGGGAA ATTAGGAAGT TTCTGTACAC CTCTTTCCT TGTGATAGG TCAAATGGA

SEQ ID NO:763: (Length of Sequence = 369 Nucleotides)

TCCAACTCC TGCCAGATAT AATCTTAAAA ATCTGTTTGT TAATTTTATT ATTTTATTTT TGGATTTTAA AATGCTTGGG
 AATTGGGAGA TATGCACAA TGTCTTGTCT TTGTTCAAA AATTAAATGC GTATTTGGGT ACTTATAGGA CACTATTGT
 AAAACATTT ATTTCTTCTG ACATTGATGG TCTTGTCCCA GTTATTAACA ACATCTACAT GTTTAAGAAT AAATTTCTTA
 TCTACTTCTT ATTCATTTGA AAATTACCTT TCTATCTCC TACTCTGGAA GTCTTTATGN ATCTGTCTCT AATCATTAGT
 ATCCCATGTC TTCTTCAAGA GGATGTCTGT CCAGTAGGAA TTTCTCCCA

SEQ ID NO:764: (Length of Sequence = 381 Nucleotides)

CGGGTAGCAG TTGCTGAGTG TCAGCTAGAC AGCAGCGACT AGGGCTCGGG CGCGGCGAG ATGCCCTTNT TCACCGCCAA
 CCCCTTCGAG CAAGACGTGG AAAAAGCCAC GAATGAGTAC AACACTACAG AAGATTGGAG TCTTATTATG GACATATGTG

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ACAAAGTTGG AAGTACTCCT AATGGAGCGA AAGATTGCCT AAAAGCCATA ATGAAAAGGG TAAATCATAA GGTTCACAT
 GTTCTCTGC AAGCACTAAC TCTTCTTGGG GCTGTGTGG CAAACTNTGG AAAGATATTT CATTTAGAAG TATGTTCCCG
 TGGATTTTNC AACAGAAGTA CGTCTGTGA TTAAAAATAA GGGCACATCC TAAAGTATGT G

SEQ ID NO:765: (Length of Sequence = 329 Nucleotides)

TTGTCTGCTT GATGCAGGAG CTGAGGAGCT GCACAGAAGG TTAAAGAGC TGTAACACAA ACAGGGCTGC AACATGCCCC
 TTGCTCCCCA CAGGGAGAGA AGAGCTCTGG CCTCGGAGA AGCCAGACC TGGGAGCTCC TTGAGCCCGG GCTGTGACTC
 CCTCTTTGGG GOCCTGGTGG GCGTCACTGC ATTGOCAGT GCCACTGTG GAAGCTGCTT GTNATGCGCC TGGTCCAGGG
 GGAAGCTGTT TGTTGTGTGC CTGGTCCAGC CACCTCATGG AGAGCCTGTG CTGGCACCTG GGAGCTGCCC AACCTGGGCA
 GCAAGCTTT

SEQ ID NO:766: (Length of Sequence = 321 Nucleotides)

GCAGTGGCAG GTAGATTTTA TTGGCCTGGG ACACACAGGG GATACCTCA CCCACGATGG GTTGGGGGGT GTGGTGTGA
 AGATATAATC TNATGGTCAC TTGTGGTAGA ATGCGGGTT CTGGCTGINT TGGATGAAGG GGAGCCGAGG GCCAGGTTGG
 CTGGTAGCTG CAAACCGAC TTCTCTGCTG GCTGCATCTG CACAGGGAGC TGGGGGGAAG CAAGGAGTCC AGGGGCTGGA
 TGCAGAGCTT GAGTCGGAGA AGCCAGTCTG CTGGTTAGCA TGINCCATCT GCTTTTNCAG GNCAGGGCA CCACCAGGCT
 T

SEQ ID NO:767: (Length of Sequence = 313 Nucleotides)

ACCGCCCTC TAGTTCACIA TTCTGTCCCC GGTACCCAGG GCATCATAGA CACTCAACAA CCATTGCTTG AATATGCAAT
 TGGATGAAAT GAATAACGA CCAGAGGAAT AATCCAGACA GAGCAGCAGT GGCCAAGGGA AGGGAGGATT GATTTATGGG
 AGAAAATTAG GGAATGAAA TCCATAGAAA GGGTTGCCT AAGTNAGAGT GATGACTINGA GCCAGAAGAC ACCCGGGGGA
 GAGGAATTNT TTCACATGGT AGGAAAAGGG GAGGAGGGAG AGAGGTGGGG TGGTGGAGIN CAGCCTCGAG GCT

SEQ ID NO:768: (Length of Sequence = 372 Nucleotides)

TCTCTCTCT GCTGTATTAT ATTCTGCAG TCCTTAGTAA CCCTGTGGC CCCTCTCTA CTAGGCTC TCCTAACATG
 TATCTATGAC ACATTGATCC CTAACAGCTA TGATTCTINCT TATACTTTIN CAGTAATTTA AATTTTATCA TTCTACTGCT
 TGTTCATAC ATCTCTCTAT GTAAATCTTG ACTCCATAAT GAGGTTTTTA ACTTCGAAGG GGTGGAAGT TATCTGCTGC
 CTGGTACCC CCCCCTCATT ACACAAGAGT ACATTTTAAAG CACATTACAC CTGAGTGATT GINGTAAAC ACAGATGCAA
 TCTTTCCACC ATCTCTTAGG AATCTCTCTG TGGGCTTTCC ATGGGTTAC CC

SEQ ID NO:769: (Length of Sequence = 321 Nucleotides)

GCAGCCAGAG CTCAAGGCT CCCCAGGGG ACCTGACCGC CGAGGAGGCA GCAGGCGCTT CCCCAGCGAA GGCCAACGGC
 ATGGAGAATG GCCAGTGAA AAGCAATGGA GACTTATCC CCAAGGGTGA AGGGAGTGC CCCCCTGTGA ACGGAACAGA
 TGAGGCAGCC GGGGCCACTN GCGATGCCAT CGAGCCAGCA CCCCCTAGCC AGGGTGTGA GGCCAAGGGG GAGGTCCCCC
 CCAAGGAGAC CCCCAGGAAG AAGAAGAAAT TTTTTCCTCA GAAGCCTTTC AAATGAGCG GCCTGTCTT CAAGAGAAAT
 C

SEQ ID NO:770: (Length of Sequence = 364 Nucleotides)

TTAAATCAGG AAATGTGATG CCTCCATCTA TGGTTTTGA AAGTCATCAG CCAGAGCTAA GGTAATGAGG ATTCCCTCCT
 TCATGTTTAT ATGCTTTTAC ACTGTGACA ACTGTCCCTA AAAAAACAAA CCCCAGGCA ATTCTCCAG GCTTATGCTC
 TCCCAGGTTT CAGTTACATT TCAGCTTAGC ATTTTCAAAA TAACAATTG TTCTTGGCAG CCTGTCTATA TATTINATTT

234

ACCTCTCTTG TTATCCCCAC TTTTCATGCT CTATGTCCCA TAGGCAATTT GACAAAGACT GCTTTGACAA AGGATTCCCTA
GACTTCTATC TCTACCTCTC ATCTGACTTG GCGGAGGAT TAGG

SEQ ID NO:771: (Length of Sequence = 357 Nucleotides)

CAGCTCACTG CAACCTCCAC CTCACAGGTT CAAGTGATTG CTTCCTCAN CTTCCCAAGT AGCTGGGACT ACCGGTGAC
ACCACCATGT CCAGCTAATT TTGTATTTT TNATTAGAGA CAGGGTTTCA CTATATGTTG GCCAGGCTGG TCTCAAACCTC
CTGACCTCAA GTGATCCGCC CACCTCGGCG TCCCAAAATG CTGGGATTAC AGGTGTGAGC CACCATGCCG GGCTAAATT
ATAGCTATTT TAGAATGTTG AAAGTAGTAT TATGTGATTT CAGTTTGCCA TAAATTTTTC ATATGGTTAC TAATTATTTT
TTTTTTGTG GATATATCTT CTGAAATCT ATTGAGG

SEQ ID NO:772: (Length of Sequence = 359 Nucleotides)

CCTCTCAGGA AAACACCTAG ACATTATGTA ATGTATTTGA AGATTAAATG ACCCTTTAAC CAGCAGTTGT GTACCTAGGT
ACAAACTTTG CAAGCACACA CGCATGTNIG TNCCAAAAG CACATACAAA AACACTCCTA ACAGCATTAT TTGTAATAAT
AAAATATAAG AAATTACCTA AATATCCATC GACTGCCAAT GGTAGTATGG TTATACAATG GAATCTACA CAGCAATGAA
AAGGAGCTAG AGCTACATGC AACACATGG ATACAACCTA CAAACGTAAG ACTTAGTGGG AAAANGCTAG ACACAAAGTT
AACACCTTCT ATATGTGGGT TCCAGTTATA TAAAACCCA

SEQ ID NO:773: (Length of Sequence = 361 Nucleotides)

GAGCCTACGG CAGAAAAAGA AACATCTTCC TATAAAACT AGACAGAATA ATTCTCAGAA TCTGCTTTGC GATGTGTGCG
TTCAACCCAC AGAGTAAAC TTINCTTTG ATAGAGCAGT TTTGAAACAC TCTTTTGTGTA GTATTTCAT GTGTATTTT
AGAGCGCCTT GAAGCCTACG CTAGAAATGG AAATATCTCC CCATAAAACC AAGACAGAAG CAATCTCAGA AACTAATGTG
TGATGCTGC ATTCCACACA CACGGTGGAC CATTTCTCTT GATAGAGCAG TTTTGAAACA CTCTTCTGT AGAATCTGCA
AGTGGGATAA TTGGGACCTC CTAGAGGGCC TTCGTTGGAA C

SEQ ID NO:774: (Length of Sequence = 387 Nucleotides)

GTTCGCTCT TGTGCCCAG GCTGGAGTGC AATGGCGCAA TCTCGACTCA CCACAACCTC CGCTCCCAG GTTCAAGCAA
TTCTCTGCCC TCAGCCTCCC GAGTAGCTGG GATTACAGGC ATGCGCCACT ACCCCAGCTA ATTTTGTATT TINAGTAGAG
ATGGGGTTTC TCCATGTTGG TCAGGCTGGT CTGAACTCC TGACCTCAGG TGATCCGCTT GCCTCGGCTT CCCAAAGTGC
TGGGATTACA GGCATAAGCC ACTGCGCCCA GCCAGAAGAT GCATGATTTT TTAGGATCAT ATGCTGTTTG TAGCCATAAG
GTAAATCATG TCTCTTCCAA TCATGACTTT TGGGAATCC CTGAATAATA AAAATGAGAG TTGAGAT

SEQ ID NO:775: (Length of Sequence = 401 Nucleotides)

GAATTTNICT TTCTGCATCG TTCTGTCTATA AAAAGGGGTA CTACTATAGA ATAGAATGCA GGCTTAGGAC CCCCCTAAGC
TCACTGTTC AACCAGCCCA GCAAACCTGGT CAGTTATAAA TTTTCTGCA GGTCCCTGAA ACAACAACAA AAAACTGGAT
GAGGTTTCCC TCCATCTTG TTTTATGTCC TTGGGAGCTT GACCTTATAA CCATACGGCG GTACTTTTNC TTGGTCTCTG
CCATCCAGGG AACCAGAAAT TGGGGGGTTA TGTATAGTT AGCTCTAAAA ATTATCTTGA GCAGTTAAAA GCCTTTGCAA
GCTTAAATTT GACTGCTGTA GGTTCCTTCT GGGGAAGGAG CAATGGGAAA CCTTNCCTAA GCTTATAGCT CANCCAGCTG

A

SEQ ID NO:776: (Length of Sequence = 345 Nucleotides)

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AACACTGGGT AAGCACTTTG TATGINCTGG GCACTCTGCT AGAGATAATG TGTCCTGAAT TGGTGGGTTC TTGGTCTCAC
 TGACTTCAAG AATGAAGCCG TGGACCTCG CAGTGAGTGT NACAGCTCTT AAGGTGGCGC GTCTGGAGTC TGTCCCTTCT
 NATGTTGAGA TGTGTTTANA GTTTCINCTT TCTGGTGGGT TCGTGGGTCT CGCTGGCTCA GGNGTGAAGC TGCAGACCTT
 TNOGGTGAGT GTNACAGCTC TTAAGGCNGC GGGTCTGGAG TTGTTGTGNC CTCCCGGTGG GCTGTGTGTC TCGCTGGGCT
 CAGGAGTGAA GCTGCAGATC TTCGC

SEQ ID NO:777: (Length of Sequence = 229 Nucleotides)

ATTGGGGGAA CCAAGCCCA NTAATGCTAT GGCCTGTGCA GACTTGTAGA GGTACTGCCT TCATGGTCTT NGSTAAGATC
 TGGGAGAAIT COCTGGATTA CCAGGCAGAA ACTCTNATTC TCTTGCTTA CTTCOCCCA AACAAATNAG TCTCTCTCTC
 TCTCTGTCTT GAGCTGCTTA GAGCTGAGGG AGGGGGTGAC ACAAGCACAG CTATGTACC AGGAAGCCA

SEQ ID NO:778: (Length of Sequence = 361 Nucleotides)

CAGAACTCA GGAATAAGC CATTAACTTT CAAAGAATAT GTGTGTGTGT TCGATATTTT CCATTCCTAA TCCACATCCA
 CGTTGGTCAA GTAGAGCTTC CTACTCAGAA GCACAGCAGT TGCCATGGTG TTCTCTTCCA TCTGAAAGCA GCAATTTTCC
 GCAGCGTCCA TTACAGAAAT GTGCCATATT TACTCAGATT CTAATGTATA TTAAATATGC TTTGGAAACT TAACAAGAAA
 CGTGCAAGCN CTCAGTAAAG AAAAGTGTGA GAAACAAAA ACTGAACAGC AGGCTTCTAG TTCTCTCTCT CCAAAATGG
 CCTTAGTGGG ATTCAAAAAT GGAAGTGTG AATAAACTG C

SEQ ID NO:779: (Length of Sequence = 392 Nucleotides)

CCTAAGATGC CTGGCACAAT CAAAGACCTT TGGTGGCTTC CAGCATTTAT AAGGCAGAGT CCAAACACAC ACTTAAGAAT
 GACTTACTCC TCCTGGCGAC CCCACCATTC CCTCACCOCG CTTTGCTCTT GTCCCTCTCGT GGAGCTGCCC CTGCCCTTAA
 AACTGCGCTC CTCTCTACCA ACCCGGACCA TATTTCCCTT CCTCCCTCA CCAGGTCCAG CAGTACCAC CAGTTTGTG
 GACATCTCCC CAAGGAGCTC TCAGTATCA GAAGCAAGGA GTTAGCCTTC AGCCCCACCT CTGTGTGCTA GGTCTACAGT
 GAGTNTCCAG TGATGCTTCC TACCGACTGC TTGGGGGTGC ACAAGAGTNA GGCCAGCAAG ATNCCAGCGG AA

SEQ ID NO:780: (Length of Sequence = 453 Nucleotides)

CTCTCTATTT TCTCTTTTCC TTTTGACCTA CCATAGGAGA CAGATTGCTC ATCTCCAAAT TTCTCTGCTG TCTGCGGANT
 GCCTGGTTT CAACCTTGGT TAGGGTTTGG CTTAGGAATA GCATAATATC CCTTTGTGAG AGGTTAAACA CTTGAGTTAA
 ATTTTGGAGG CCAGGTGTGG TGGCTCATGC CTGTAATCCC AGCACTTTGG GGGGCCAAGG TGGGCAGATC ACGAGGTGAG
 GAGATCAAGA CCATCCTTGC CAATATGGTG AAAACCCGTC TTTACTAAGA ATACAATAAT TAGCTGGATG TGGTGGCACA
 CGCCTGTGGG TCCAGCTAC TTGGGAGGCT GAGGCGGGAG AATGCTTGA GNTGCGGAA GTGGAGGTG CAGTINAGGT
 GAGATGCGC CACTGCACIN CAGCCTGGGN TGAGAGAGCA AGACTTCCGT TTC

SEQ ID NO:781: (Length of Sequence = 306 Nucleotides)

AAGCTACTCG GGAGGCTGAG GTGGGAGAAT CGCTTGAACC TGGGAGACGG AGGTTGCAGA GAGCCGAGAT TGCGCCATCA
 CACTCCAGCC TGGGCGACAG AGTGAAACTC CATCTCAAAA AAAAAAAAAA AGAACCACCA CTNTAACTGA GAAATAGATG
 NTCCTATTAA CAGTTTAGAA AATGTATATA ACTCTAATCC ACAGAGGTTT ATACTTACAA GCAACTCATG GTTTCCTTT
 TAAGGGCCAC ATGTGGAAAA TTAATCTGAA CAGTTAGTGC AAGGAGGAGT CATACTCAG TGGAAA

SEQ ID NO:782: (Length of Sequence = 443 Nucleotides)

GTCTGGGCT CCTGACCTCA GGATCTGCG CTGCTCGGC CTCCCAAAGT GCTGGGACTA CAGGCATGAG CCACTGCACC
 TGGCCTAATT CTACATTTN ATCTACAGCA GACCTTTTAT CATAAAGAG TTTCTATAAA ACATTTCTCA AAAGAAAAA

236

TGTATTGACA TTCTATTTTC TTTCTCCTCC AGATACTATT TTTNGGATTT NAAACATACA CAATACTTAG GAGACTTGTT
 TTAAGTGCAG TGGAAAATTT TNCCAGGGAC AAAGTCAACA CAANGAAACA AACACAAAA AATAGCCAGA AAGAGAACAG
 TTAAGTGCAG CTGGGTGAGT CCCGGCAGTT CCTTCCCGGC ACTGGCTCGT CCCTGGGGTT CTCAAGGTTT CATGCGGCCA
 CAGGTCCGT CCACCTGTT CACGNGAGCC ACATGCTGGA ATT

SEQ ID NO:783: (Length of Sequence = 350 Nucleotides)

CATTACAGCC GGGCACAGTG ACTCATGCTT GTAATCCAG CATGNTTGN GACATAGCAG TAGGGACTAT CGACAAAGAA
 ACACACAGAG GGAAAAAGAA TTCCACATTT GGGAGGCTGA CGCATGAGGT TCACCTGAGG TCAGAAGTTC AAGACAAGCC
 TGGGTAACAT GGTAAACCC CGTCTCCACT AAAAATACAA AANITAGCTG GGCATGGTGG CCTGGGGCTG CAGTCTCGAC
 TACTTGGGAG GCTGAGGCAT GAGAACCTCT TGAACCCGG AGGTGGAGGT TGCAGTGAGC AGAGGTCATG CTACTCTCAA
 GCCTGGGGCA ACAGAGCGAG ACCCTGTCTC

SEQ ID NO:784: (Length of Sequence = 265 Nucleotides)

ATAACTGAAA AATGGAAGAA AATATTTGCA AATTACACAT GTGAAAAGCA GTTAATATCA AAAATATATA AGANACTCAA
 AGGACTATAC AACAAAAAC AAATAACCAT GAAAAAATAG CAAAAGATAT ATATAANINA TTINCAAAGA AAGACATACA
 TATAGCTTGG CAGATAGATG AATATGGCTC AAAGTCAATT ATCATCANGG AAAGGCAAAC CAAAACAACT CTAAGATATA
 AACTCACTCC TGTTAAANTG TTAA

SEQ ID NO:785: (Length of Sequence = 363 Nucleotides)

GTAAAGNITG AGAAATCGGA TGGTTCCTGT GTCTGTGTAG AAAGAAGTAG ACATGGGAGA CTTTTCATTT TGINCTGTAC
 TAAGAAAAAT TCTTCTGCCT TGGGATCCTG TTGATCTATG ACCTTACCCC CAATCCTGTG CTCTCTGAAA CATGTGCTGT
 GTCCACTCAG GGTAAATGG AAAAAAAAA AGAAAAATGA AACCAGGAGT TGGCAATTAC TTTTTTTTTT TTAAAGACA
 GAGTCTTGCT CTGTACCCA GGCTGAAGTG CAGTGGTGAG ATCTTGGCTC ACTGCAACCT CCACCTCCCA AGCTCAAGTG
 AATTCTCCAT GCCTCAGNCT TTCAGAGTNA CTGGGGATTA NAA

SEQ ID NO:786: (Length of Sequence = 291 Nucleotides)

AACAACAATC AGCCACAATG TGCTTTTAAG GATTTAAGT ATAGTAAAGA TAAATGTGAG TNITAAGAAT GGGATTTTTA
 GACTAGGCTG ACACAAGGGA TCTTCTTNA ATAAGGNTCT TGAGCATTG TTTTTTTTGA GCTCATCCTT AAGGGCTGGA
 CAGGAAGAAT CCTGTGTTAT GTGTGCATGT TGAGCAATGC AAAAAACT CTGCCAAATC CTNGATACCA CATGGTCTNG
 AGAAATGCAT GAGTGATTTA ACGCACGNT GGGTGTAGT ATTATGTTCC T

SEQ ID NO:787: (Length of Sequence = 256 Nucleotides)

TATTTCTGTA TAATTTTAT TATGACCATA AAAATAACAA TGTAGTCAAT AACAATTTAA TTGTACATTT TAAAATAATT
 AAAGTATATA ATTACACTGN TTGTAATAAA AAGTATAAAT GTTAGAGGTG ATGGATACCT TATTTACCTT AATGTAATTA
 CTACACATTG TAGGCCTGAA TGAAAATATG CCATATAAGG CATAAATATA TACACATACT ATATACCCAC AAATACCAAT
 AATAAATTTC AATAAG

SEQ ID NO:788: (Length of Sequence = 322 Nucleotides)

GGTCCAATGA AGCTTCACT CGTTTTGAG TCAAAGCAGA CGGCAAATCA GCAAAAGCA AAAATAATGT ATCTTACTGC
 ATTACAGACA AAAAAAAAA AAAAAACAGA GTGAACTAG ANCTATTTTC AATAGTAGTT TTCTGACAGC TATATAANCA
 AATATAGANG ACATTATGGA ATTAGTATG TGAACGAGAA CTGTGCCATG TATCTGCCT GCCAGCAAAG GTAGAGATGG

237

CTGGINATATT TGTAATGGTT TACTATGAAG GCTGTTCAT AACCTNCAAT ATCCACTGNT CTTGGGTGGT ATACCAAGGA
TA

SEQ ID NO:789: (Length of Sequence = 357 Nucleotides)

TCAATGTGGC ATTTGTTTTT NTAGAAAAC CCTTAGTAA GCACTTCTCT AACCCAGAAT AGACACTGGG TATCCTCCAA
GAGTCCATA GCCTTCATTT CATCTTCAC CCTCTCTGA GAGGGGGAGG CAGGGGATAG GGGTGGTGTG AGGCAGTCTC
CAAAATGCCC CTCCTAGACC CCTGAGAGAA TTCATGTTGC CAGCAATAAA CCAACAGCAC CTCAGTGGGG CATCANAGGG
CCCTCTAGGC TCAAGGCTAT TGCCAAAGGG CATTCTGT TTATGAGCTT CACGATGGGA ACCAAGGNAG GCTCTGCGAA
GACTTCTAG GGGCTTGGTC CTCAACTTA TGGGCT

SEQ ID NO:790: (Length of Sequence = 366 Nucleotides)

TGGCCAGGCT GGTCTTGAAC TCCTGACCTC ATGATACACC CGCTTGGCC TCCCAAAGTG CTGGAATAC AGGCGTGAGC
ACTGCACCCA GCCTGTGTG ATCTTTTAAA GTACAGTTC CATAGATTTA CATTAGAAT AAAAAAGTCA TGACATCTTG
CTTTTATATG GCAGTTTACT CAAGCTTTTT AAAGAAAGAG CATTCATCTT GCTTTTACGT GGTTTTAGAA TGTGAAAAAC
CTTTTGNIAA ATCTGAGTAA TTTACTGCAT TTCCATTAA TTCAGCTTAG TTAGACTGCT GGTCCAGTG CTTTGTTTTG
CTGTACATA TACCCTAATA TGCTTTTAA CATATGNCCA AATTCC

SEQ ID NO:791: (Length of Sequence = 317 Nucleotides)

AACAACCCA ACCATAATGG AGAAGGAAAT GGCCAGAGTG GCCACTCTGC AGCGGGCCCT GGTTTTACGA GCAGAACTGA
GCCTAGCAA TCTCTGGAA GTCTGCGTA TAGTTACAA GATAGTTTGG GGTGAGCGT GCCACGAAAT GTCAGTGGCT
TTCTCAGTA TCCTACAGGG CAAGAAAAGG GAGATTTCAC TGCCATGGG GAACGAAAGG GTAGAAATGT AAAATTCCCA
AGCTCTCTGC AGGAAGTGCT TCAGGGTAC CACCACCACC CTNACAAGN GATATCTAG GGGTACTCA AGAGCAT

SEQ ID NO:792: (Length of Sequence = 258 Nucleotides)

GATCAATATA TCCAGGAAT TGTAAGAAAG TCCTAAACTT TTCAAACATG TCACAGGTAG TACTTGAAGT ATGCTTGGTA
AAATGTACCG GTTAAGCAG TATGTTCTC AGATAGCCTG AGATTTTATT TAACAATTAT GTATCTAAGT CTACTAATAC
ATTTAGCAA AAGAGTGTG GTTNCATAAA TAAGANGTCA GTATTTCACT TAGATTATTT CAGAAACTTG TAAGTNCCTG
TAAATAGCTA CTCGAAA

SEQ ID NO:793: (Length of Sequence = 282 Nucleotides)

GGAATGACAT GGTCACTCTN ACTTAAAGA AACATTTAG GTTCACACTT GCCAGTTAG GAAGAAAACC AACCTTAGAT
CCCTTCCCC CCACCAATAC TCCTTTCCCC AAACACCGTC CCCACCGNC TCTATGTTA ATTGAATTTT TATTTGTGAT
ATATAGAAA CCTAACCCTAT GGCTGTATG CTGAGTGTA TTTGGCTTCA AGCTCGAACC AGGGAACAGC TTGGCCTGGA
ACCTGAGAC AAGATGCTGG CCTCANAAGG TGGGGCTCA CG

SEQ ID NO:794: (Length of Sequence = 330 Nucleotides)

GTGAGGCTG CAGGGAGCCA TGTTCACCC ACTGCACTAC AGCCAGGGTG ACAACAAGAA CTTTCTCGG CGTGAACCCA
GGGGCGGAG TTGAGTGAG CCAAGATCGT GCCACTGCAC TCCACCAGCC TGGGTGACAG AGCAAGACTC CGTCTCAAAA
AAAAGTTTAC TACTCGGCTT TAATTATTTT GTTTCGGTTT TGGGTGAAAT NATTTTATTA CTGACTGGIT CCTAGTTGT
ACAGAAGCCT ATTATCTTTA GAGAGACTCT TCATGGTAAT TAACTCAGAT TCTTATTTTG CCTGGGTGAA AGGANGGCAA
GTGGATCTAA

SEQ ID NO:795: (Length of Sequence = 332 Nucleotides)

GGAAATAAAG GTGACATGAA CTAACATATC AATCATGAAT GGTAGAAAAA AATGAAAATG TAACGAGATG GGATCCGGGT
CAAAGTCAGG GGAGGTATAG TTGAAGATAT TGAAGGAGTC ATTATGATAC CAAAGAAAAT GGAAAGANGT GGTATCCAGA
TAGGTTATCC TTGGAGAGTA TCCAGGGATG TCTCTTTNCC TAAGACCTTA GAGAAGGAAA GGATGGCTGA TAATATAGGG
AAAAGTTGAC ATGGAAGGAT TAAATAATTT TTTNAGAATT CACGTAAGGN ATGATAATCT GAATTTCCAG GGCTAGGCTC
AGAAGCAGAA AT

SEQ ID NO:796: (Length of Sequence = 305 Nucleotides)

CCCAAGGGGA CAGCCTGANC TCCCTGCTCA TAGTAGTGGC CAAATAATTT GGTGGACTGT GCCAACGCTA CTCCTGGGT
TAATACCCAT CTCAGGCCT AAAGATGAGA GAACCTGGGA CTGTTGAGCA TGTTTAATAC TTTCTTGAT TTTTNCITC
CTGTTTATGT GGAAGTTGA TTTAAATGAC TGATAATGTG TATGAAAGCA CTGTAAAACA TAAGAGAAAA ACCAATTAGT
GTATTGGCAA TCATGCAGTT AACATTGAA AGTGCACTGT AAATTGTGAA GCATTATGTA AATCA

SEQ ID NO:797: (Length of Sequence = 337 Nucleotides)

GGCTGCATTA TGACAAGAAG TCAAGCTTCA TGACAGTTAG TATGGGCTGG AGTCTGCAA GTCTGAACTG TATTCTCATA
GAATGATTCC AGGTTTCAGG GTGTTCCACC TGCCAGAAC CAAACTACA ACTATGGGCG ACACAAGGGA AGTTTTAGAA
ATCTCCCTCT ACACGCATTT CTGGTTTCT ATTAATCTCT CATGCGAGCT GACAGATCTG GAAGTGNAAA TAGGGGATTC
TCAAATCAA AGCCANGAAG ACACCTTGTG TGACACCAAT GGAGTCTCAG AGGGTGGGAA TAGAAGTGAC TTNGNCCAG
GCATTGCTG GGAACCT

SEQ ID NO:798: (Length of Sequence = 341 Nucleotides)

GAACCCCTGA AGGTCTAGGC TACAGTGAGC CATGTTTGA CCACTGCACC CCAGCCTGGG TGACAGAGTG AGACACTGTC
TCCAAAAATA ATAGTGATAA TAATAATAGT CATTTATTTT AAGTCTACAT GCTGAGATGC CAGAACAGT AAAATTGGAT
TATAGATTCA AGCAGTATGT AGGTATACTT TCATAAAGTG AATACTGATG TAATTTTGA TGATTAAAA CAGNCTTTTA
GTAGGTGTTT AAAAATCTGG NTAAATCCTT TCATGNCATT CAAACATTTA GGTGGCCTGT CTTGTGTTTT TTAGGNTATA
ACTTGCAAAC ATTCANTTGT T

SEQ ID NO:799: (Length of Sequence = 322 Nucleotides)

TTTTTGAGTA ATGAATTCAT TTAATATAAA CTTTAGTATA GCAGAATACT ACAGGTTACC CAAATTTAAC CCTAAAAACA
AACAAATGAC AGGCATTCA GTGAAATAAC AAGCCCATGT TCAAATATAA AATGCTAAAA GTGAGAAAGA AATTATGAAA
ATATATACCT TTAATTTGCA GACATATAAA CACTTTTGGT ACAGTACAGA TGCATGATGC CAAAAAGTAA AATGNTCCAG
TTTAAGCTAA CACATTCCTT GTTATACAG NTATTTTNC TATAGCTCTC ATATAANANA AATATTNCCA GCTCACACAA
TG

SEQ ID NO:800: (Length of Sequence = 405 Nucleotides)

ATCAAGAGTT GTGTGGTCTA CCGACTGAGC CTGCCAGATA ACCCTGTAGT ACAATTTTTN CAGCATAGTG GAAAAGAAAG
CCATGNTCT GGGCAGGTCA GGGTTTGANC GCTAGTGNT TGTATTAATG ATCATGATGA TAGCTAGTAG ACAGGGCTTA
CCAGATACTA GGTGCTCTCT TAACTGCTTT ACATATGTA GTTAATCAT TTAATCTTCA TGACATCACC CCTGAGATAT
GGGTAAATAT ATAATGCACA TTTTATAGGT GATGAGAGTG AAGCACTTGC ACAGATTACT CCAGCTTAGT TCATAGCAGA
GCTGGGACTT TTAATCAAG GCACTAGATG GTTCCAGAGC TTGTACTAC TCTTCTGGG TCTTTCACAG TCTGAGCTGG
TCCGG

SEQ ID NO:801: (Length of Sequence = 408 Nucleotides)

CTGCGTTCCA TGTAGCGTCT TOCAGAGINC TCTGTTATAA GATGGTTTGT TACATTGCTG CAGATATTTT TGCATGTCTC
TTGAGTTTCT CAAGACCAGG GTTGTATTTT TCCATGCTG TCGATGAAAC AGTACATGAC AAAAGAAGGT ACTTAATACA
TGTTTGATAA ATTAATTACT GTTTGGTAAA TTAATTATTG AAGGAAGACC CAGACTGGTT CTGATAAATC ATTGATTACA
TTTTACAAAT TTGGATAAAT TAGGGGAGCC TTGAGAAGTT AGAGCTCTAG GGAAGGTTCC AGGGAACGTT TGAAGGATGT
GAAATATGGT TTTCAAAATT CATAGTTTAT TGCAGGATTC TGGNATACIT TCCCAAGTGA GGGGNAAGAT GAGGAAGANG
ATGGGCTT

SEQ ID NO:802: (Length of Sequence = 343 Nucleotides)

ATGAGACTTA CTCACTATCA TAAGAATAGC TTGGGAAAGA CCCACCCCA TGATTCANCT GGGTCCCACC CACAACACAT
CAGAATTATG GGAGCTACAA TTTAAGATGA GATTTGGCTG TGGACACAGC CAGACCATAT TAGACTCATA ATTTGNCITC
TGCACAGTAA GANCTGGGCT GGGATACCTC ATAGATCATA AACAAATCOG CACCCATGAA AAGATTTAGA GAGTCACACA
GGAAAGTCAA CAGAAGNCAG AGAGATGTGG GTCTGNCIT TGCATGTCAT TAAGTGGTGG GNTCCTTCAG CTTTCACATN
TTCAGGCAGT GGGGTCAAGA AAC

SEQ ID NO:803: (Length of Sequence = 182 Nucleotides)

GAATGGCCTT NCTAACGGC ATGTATGACT TGCATGANT CTCTAAAGCT GAACTGGCCT CACCTCANC TGTCTTGCTG
GCAAATGGG CCTTCAGTGG GAAAGTAAAT GGCAGCTGCT GTNATTACCT GGTCGNTGAA GAAAGACAGA TGGCAAAATT
NATGCCTGTT GGGGATGACA GC

SEQ ID NO:804: (Length of Sequence = 312 Nucleotides)

TTTATTTACT GCGTTGTAA ATNATCACAA AACATAITCA TTGTCAAGTG AATGCACAGG CTTTCAAAGG TGATTGTATT
CTGCAAGGTG GGGAAATAGCC AACTACCTTC TAAGGTGAAT GTNCAGCCTG CCATTTCCAA CCCCAAAAT CCTCTAGATT
CTCAACAGGG CAGCTCTGCT TTTATGCCCT TTTTCGGAAA GGTGAGCCCT GTGTAGAAGG CTTAATACCA ACATGCAGAT
CCACCTGAGA ATCACTGGAA TGCTCTGGAC CCAGCTGGAA TGCTTCOGGA ACCCAGTCAG GCTTNOGGAA AT

SEQ ID NO:805: (Length of Sequence = 411 Nucleotides)

CATGCAAAAT TCAGATAATA AAAAAATGCA GGGCCTGGTT GCCCACATAC ATTCTCAGG TTAAGGTGGA TTTAAGATG
CCCAACAGAA CCAATGAAT CAGAAGCTAA AAGGGACACT TCAGTGATCA GCAGACGCAT TCTCTCAGT AACAAATGGA
GGGAAAGTGA GCACACATTA ACTAGCGAAG TCACAAGGCT AGATTAGGGG TGTACAGAAA TCTAATTCCT GGTGCTATTT
GCAACTACAT ATATTTAAAA TACANGGAGA TAAATACCCA GAACACATTA AGCCTACTGA TTTAAACAGA NCATTTCAAG
ACTGCTACAC AGAAAGGGAA GGGAGCTGT TAACCCAGCA CAGCAGCACA CCTCACATAT TTCCGTCTCA GAGGTAAAT
GGGAAGGAAG G

SEQ ID NO:806: (Length of Sequence = 287 Nucleotides)

GCATTINAGT GCTGATACAG ATACAGTGA TTCTGCGCT TTCTCTCCT NTATATTGAA GGGATTATAA ATGAAGCTCT
TTAAACATTC TGAGATCINT AAGTTGATTT CTACATGAAC TCCAAGTGGT GTTAATGACA TTTTCAGAAA AGATGCTTTA
CTTAGCTGAC AAGAAAAAGT ACTCTGTAAG CCTTTATTTG TATGTGATAA AACAGAGTTG ATAAAATAAT CTACTATTAA
CTTATCAATG CAGTCTTACA GAATCCACCT ANTTACAAAG TAGATAA

SEQ ID NO:807: (Length of Sequence = 369 Nucleotides)

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GGCAGATATA ACCTTTCTCT AAACATCTCT AATGTCTGTC ATACCCCACT AATAITGGCT ACATAATACA TTTATTTTTG
 TCTTTTGGGA CTAAGTGCCT TACTTAGTTT TGTNCAGTGT ATTCAITTAAT TGAAGAAATA CTTATTCAGG ATTTCTATTA
 CTTAGTTTTG CTCAATATAT TCACTAATTG AAGAAATATT TATNCAGGAC TTCCATTATA TGAGCACTGG CCTTTGTGGT
 ACAAAGATAC AACATGAATC TGAAACTCAA TTTAATCTAG AAAGATTTAT TAATATAANC TCATCAGAAA AGCAAGNCAT
 CTACTGTGAT AGCTACAGTA TTGGTTAGAA ATGGAAAGAG AGAGCAGAT

SEQ ID NO:808: (Length of Sequence = 361 Nucleotides)

CAGGCTTTGT ACCAGCCGCC ATACTCTCCA AAAGATGTCC CATCCTTTIN CTTTCCITTG CATTCTTCTC TTTCTTCAGC
 ATGCATCCAG ATGGGTTTAT TTTTCATCATC TACAGAACCA AACTCCCTTT CATGTGCAAG AGTGAGAATC TCTTTGTACA
 GTGTTCTGTC TTGCTTGAAC TTTCTTGTIT TCAAAATAGCA GGATGCCAGG TTATTTTNCG TCTTAGCCAC GTTGGGGTCA
 TCAGGTCCCA GTTTTGTCTG GTAGATCTCG AGGGCTCTTT GATAATAATA TTCTACTTCT TCATACTTGC CCTGGGTTCT
 GGCACAGTAA AGGCCAAGTT ATTTAACTGC TTGCAACAT C

SEQ ID NO:809: (Length of Sequence = 353 Nucleotides)

CTAATTTATC TTCAITGCCA GTGAGCAGTG TTGCGTTTTT CCTTGTAGCA TTTGGAAATG ATTTACTGGA ATTACAAAAC
 CTATTTTCCC TTTAAATTTT AGCTTTGGCT CTGGCTGCTT TTTAGAATAA TGCAAGATAA AAATCACACC TGAGGGCTGA
 AAACGAGAG GGAATGGGAG ACTTGATATT TAAGCAGCTT GAATGGTTTT CCNTTNCITT ATTTTAAAG AAATGCACCT
 GCCTATGATA CTGTCTCTCC AGTGAAATGA TTACTCTTCC ATTACTCTAT TGATACANTA TTGTGCATGC TAGTGTGTGA
 TTTCTATACA GTAGCTTGAA AATTGATTAA CCT

SEQ ID NO:810: (Length of Sequence = 296 Nucleotides)

GAGGTCAATG CTTCCAGGC TCGAGTTGAT GCCACAGGT GTATTGTACG AGCATTGAAA GATCCAAATG CATTTCTTTT
 TGACCACCTT CTTACTTTAA AACCAGTCAA GTTTTGGAA GCGAGCTTA TTCAATGATCT TTAAACCATT TTTGTGAGTN
 CTAAATTGGC ATCATATGTC AAGTTTATC AGAATAATAA AGACTTCATT GATTCACTTG CCTGTITACA TGAACAGAAT
 ATGNCAAAAA TGAGACTACT TACTTINATG GGGAAATGGCA GTAGAAAATA AGGAAA

SEQ ID NO:811: (Length of Sequence = 493 Nucleotides)

CCAGGAGCTT CTCCTCTCTT GCCAGGGCTA TGAGCAGAAA CCTCAAATAA ACCCTGGGCA GAGAAAACCA ACTTAATGAA
 GAGGACGTTG CTGTTTCCAC TGGCTTCTAA TTTTGCAGAT GCAATGAGCA CTTACGGCTT TTGCAGTGGT TCAGGAAAAG
 GCAAGAAGAA GCAGATTGTC ATGTTCCAAA GCCCTCTGAT GGCTGCATGG AGCCAGCGGT GCTGTGACTT TTTTAAATAG
 CTTCAATACC TTINATACGT ATGTCTTAT TTACTCTTTA TCTATGCTCT CTTCTCCCA TCAGCCTGGG AGCTCCCTGG
 GGCAGGTCTG TTTCTCCCT CCAGTCCGGA NITGSCAGGA GCTGTGCCCT CCCCATCACA CTGGGAGGCT GTCTNAAGGC
 AGGGGCTGTG GTCTCTGCCA TTAGACTINGA AGCTCCCCAA GGTTAAAGGT CATATCCTCA AAAAAGCTTA GAATAGCTTA
 GGAACCTAGG GGT

SEQ ID NO:812: (Length of Sequence = 337 Nucleotides)

AAATTCACAT ACTTGTAAAT NATGCAAGCA AATCTCACA TAATTATTTT TAAATGCTAG ATAGTTGGTA TAATINCAAT
 CATTTTAAAT ATGTTAAGAC TTGTTTGTGA CCTAACATG AGGTCTATNC TGAAGAATGT NCCATGTGCA CTTGAGAAGA
 ATGACTGGAG TGTNCTTAT ATGTATGTA GGTCCAATTA GCTTATAGAA TTGCNCTAGT CCTCTATTTT CTTATTCANC
 TTTTGTPTGG TTGTTGINCT ATCCATTATT AAAAGTGGG TATTGAAGTC TCCTACTATT ATTGTGCTAT CATCTCAGC
 AAATAACAC AGGANCA

SEQ ID NO:813: (Length of Sequence = 310 Nucleotides)

AGGTGGCCTC AGNNCAGCCA AGCTGACCTT GGCACCTGGC TGGCTTCINT AAGGCANTAG AGTGCCACA CATAAGCNCA
CCACCTINTCC CCACCTCCTC CCTTCTCTCC CATGCCACCC CACTTGCTTC CAAGGGCTTG GTTTCCTAAG TNACATCCAG
GGTGTAAAGAG GTTGGGGAAA ACGTCCTGCA AGNIGGCTCA GGGATCINAT TCCATCAGAT GGTCTCATGA ATACTGTGGG
AGATTAAATC CATCTCAAAA TAGGCAACCA ATGCTATATT CTGAATNINA GGTCTCTGGA CTGAGTCCCA

SEQ ID NO:814: (Length of Sequence = 361 Nucleotides)

GATTGAGCC ATCAGAATTC AGCTTTTGTA GATAAAGAAT ATGAACCTAAT TGACTATGGA TGGAAATTATT GTATATAGTC
AGCTTGCTGA ATTATIGGIT AAGCACTACT AACTATATCT TGGTAACTA TGGTGCACT GAGCCACCCC CTAAAAGCAA
AAGACATTTA GCAGTTCACC ATATTTTGCA ATTAACCAAA TGAGAGCCTA TGAGANTGAA ATGNTTTCAG GTGGAGTTTG
ACAATACAAT TCATCCNTAA TATATAGGNN NAAATATTTC CTCAAAAATA ACATCTATGT GGTAGGNCCT TAAAAACGAT
GGATGNAATG CATGCAAAAT TCTCTGGTAC ACAGACACAT G

SEQ ID NO:815: (Length of Sequence = 301 Nucleotides)

GAATTINACT CTGTGTTCCC AGGCTGGAGT GCAATGGCAC GATCTTGGCT TACCGCAACC TCCGCCTGCT GGGTCCAGC
GATTCTCCTG CCCCAGCCTC CTGAGTAGCT GGGACTACAG GCATGCGCCA CCACGGCCAG CCAATTTTTG CATTTINAGT
ACAGACGGGG TTTCACCATG TTGGTCAGGC TGGCCTCGAA CTCCCGACCT CAGAGGATCC GCCCACCCTG GCCTNCCAAA
GTGCTGGGAC TACAGGTGTC AGCCACCACA ACCGGNCTAA TTAATACTTC TTGAAATTTT A

SEQ ID NO:816: (Length of Sequence = 310 Nucleotides)

ATCTTTAACA TATTAAAATA GACATGAGAA AAATGTGTCA TTTGATAAAA TGGGGGAAAT GTAATAAATG ATTACCAGAA
ATATAAAAT AAGCCGTATA TGCNCTTAA TAAATCGAAT CTAGGCATCC TTAAATGTG AAAAAAGNTG CAACAAGAGT
AAGNGCCCA GAATGATGTA AATTACAGGA ATGGGGTGTA ATGTAACCTC TAGAGGAGGT GATGTTTGA AGAAGCAAAG
NGAATGCAAT GANGAAGCAA ACTTGTTTTA GGCAATNCT CCTGGGAGTG GGACCAGGCA GCCCCTCTT

SEQ ID NO:817: (Length of Sequence = 225 Nucleotides)

TGGCATGCGC CTGTAGTCCC AGCTACTCAG GAGGCTGNGG CAGGAGAATN CCTTGAACCC AGGAGGCAGA GGTGCACTG
AGTCGAGATT GCACCACTGT ACTGGTCTCA GCCTAGGCAA CAGAGCGAGA TTCCATCTCA AAAAAAAAAA AAAGTTAAAA
NTAATATGCT AACTATGATA CAAACTGATA GCAATATTGT CTTTAGATTG AAAATAAAAA TAGGG

SEQ ID NO:818: (Length of Sequence = 225 Nucleotides)

TTAAAAAAC CTGTAGTTTC ATTACCTTTT TGAATAATGN CATACAAAA ATGTATTTGN TTTTGTGTC TGTGAGAAAT
GATGTTTGTA GATTAATAAT CATTTGTGTT AGAATTACAA AATAGTTTTT AAATATTGTC TGAGAAAAGC CAAAGTTAAT
GCAACCNAGT GGAACTGTA AGACCNTTTG AGTATTGTTT GTTTTATTGG ATGCATTGG ATTTT

SEQ ID NO:819: (Length of Sequence = 280 Nucleotides)

TTGACTAGCT TCCTACGTCA TTAAAAATTC TTAAATAGT CTGTCTTAAT GGCTGCAAAT TTTGTCTGTA GTCTGGGCTA
AAATCTGATG AAATGPTTTA CCTGTGGTTA AGTAATTTAG CAACTCGTAT CTTTTTAAAA TATTACAACT GGNATTTCTA
GTACGTCACA AACATPTGIN ATATCATTTA TTTTGTGCCA TTGTCTGTGC TATGAAATAC AGTAGAATGA AAATTTACTT
CAAAGCATTC ATINTCTTCC CCCAGGNAT GATGGCAAAA

SEQ ID NO:820: (Length of Sequence = 328 Nucleotides)

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CCAGTTAATT TTGTAAGTT TATAGNGATG GTTTCAGTTA GACCTGTGCT GTCAATACAC TAGCAATTCA CATGCACATT
 TAANTTTAAA TCTAAGTTTA AATTTAAAIT AAGTTAATAT TAAATAAGAT TTGAAATGCA ATTCTCAGTC CTACAAGCCA
 TGCTTCAAGT GCTTCATATC CATGTGAGGT TAGTGGCTGC TATACTGGNT AGTGCAAAA GAGAACATTA TTGTAATCAT
 AGAAATTTCTA TTGGTAAGTT TATGGGGTAG TACATGGACT AGAATGTAGT GAGGTAGTGA GCTGTGGATG CAGAGAAAGG
 NCACTGGA

SEQ ID NO:821: (Length of Sequence = 310 Nucleotides)

TCAGCATGTG TTTCTGTATG TMTGAGATG ATTATTTGGT TTTCTTTTT ATTGRTTAA TTTGGTGAAT TGCATCANCT
 TTAGTATCTT AAACCAACCT TGCTCTCTA GGGTAAACCT TATGTGTCA TAATATATAA NCCTTTAAAT ACATTATTGG
 ATTNCTTTTT TTAATATATT GCTGAGGATT TTTTCATGACT ATAATCATAA GAGATATTGG CATATGATTT CCTATACTTG
 TAATGNCITT GTTAGAAGGA GTTTATATTA GGNTTTATNC TGGCCTCATA AAATGGGTTG AGAAATGTCC

SEQ ID NO:822: (Length of Sequence = 372 Nucleotides)

GCCAGATTGT NTTCCTTGG AGCCCTGAC CCCGCTACT CTCACCAGA CACGGCCCGG CTTTGGCCCA CAACACAGCC
 GTCCACCCC TGGTTCCTTC ACCTTAGCAG TAGCAGTAGC TCTGGGTGA GTTGCCAGAG GAGCTGACAG GCCCTCTGCC
 ACTGCTGCCA CCCCCAGGGC TAGGGAGGGA ACAAGAGCC TGCTGTCTGT GCTTGACAT CCAGCATGCC ACAGCTGCAC
 TACGGNGAGG AGGTCAGACA GTCCCCCAA CAAGNCCCG ATCCTCTNC TCTCCACCAG GGAGGGCCCT GGGCTTTGGC
 CCCACAGNAC AAAACGTCC ANCCCGGGCT GATCATTCTG GGTGGCAGC GG

SEQ ID NO:823: (Length of Sequence = 288 Nucleotides)

AGCTGGCATC CTGGGGAAA ACCAACAAC AGTCTCTCA CAGCCAAATT CACCACAGTA CTCCAATCCG NAACCAAGTG
 CCGCATTAC AGCCCATCAT GAGCCCTGGG CTNCTTTCTC CCCAGCTTAG TCCACAACIT GTAAGGCAAC AAATAGCCAT
 GGCCCATCTG ATAAACCAAC AGATTGCCGT TAGCCGGCTC CTGGCTCACC AGNATCCTCA AGNCATCAAC CAGCAGTTCC
 TGAACCATCC ACCCATCCCC AGNGCAGTTA AGCCAGNGCC AACCAACT

SEQ ID NO:824: (Length of Sequence = 325 Nucleotides)

CTCTGAGGT CAAAGCTGCA CGTGGGAAG AGAAAGACAA GGAGACCAAG AATGCTGCCA ATGCTCTNC ATCCAAGTGG
 GCCAAGACCG CCACTGCAGG ACCAGGAAT ACCAAGACGN CCAAGTCATC TGCTGTGCC CCAGGCCTCC CTGTGATTTT
 GGACCTGTGC TACATTCTTA ACCACAGCAA TAGTAAGANT GTTGATGTGG AATTTTCAA GAGAGTGCGG TCTTCTACT
 ACGTGGTGAG TGGGAATNAC CTTGCTGCTG AGGAGCCAN CCGGCTGTC CTGGGACGCT TTNPTTGGAA AGGAAAAGGC
 TCACT

SEQ ID NO:825: (Length of Sequence = 318 Nucleotides)

AATCAGCCCT ACAGCGATTC CTCACCCCC ATTAGCAAAT ACCGTAATAT ATGNCCTAG TAATCATCCT CTCACAATTC
 TNCITTCCT AATTINCCG TGAGTCAAGT TTCTTGACCA CAATGTTATG CTGAGGAAGA TCTAATGTTT TCCATGGAGC
 AGAAATGTT AGTCCTCAAC TCCAAGGTCT GCCTGTCAA GCCCTGTTIN CCGTGTCTTC ATAAACCTTG TCAGGCATTT
 ATTTATTCAG CACATATCTA CTGINTCTG CACAAGAATT CATAAGGTTT TGATGAATTA TGTCCCTTCT GAGTGGGA

SEQ ID NO:826: (Length of Sequence = 287 Nucleotides)

TACAGACTCA GGTATAGGG TGINATTTTC TAAGTCAATA TTCAGTTTCA CAGCCAGAAT CTGTGAAGAG AGAACAAACC
 ATGAGAAAAC TAACANTTTT ATGGTGATTG AGAGGTTCCA AGTNCCTGGN GTTTTAAAAA AATCAGTTTT TAAAGATAAA

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^{TTC}
CAAACCTAAAA CTAGTCCAAG CACTGAGACA GAGTATTAAA AGATGGTAGC ACACCCAAAG NGCACGGTGG GTCTTGAATA
GCTAACATGT TTCAAGTAGT GGAGGNAGAT GTGCTTAAAT AGTTACC

SEQ ID NO:827: (Length of Sequence = 426 Nucleotides)

TTTTTTTTGT TTTGGGACAG AGTCTCACTC TGTCACCCAC GCTGGAGTGC AGTGGCGTGA TCTCGGCTCA CTGCAAGCNC
TGCCCTCCCGG GTTCATGCCA CTCTCCTGCC TCAGCCTCCA GAGTAGCTGG GACTACAGGG GCCCGCCACC ACGCCCGGCT
AATTTTTTTTG TATTTTTAGT AGCGACAGGG TTTCACCGTG TCAGCCAGGA TGGTCTCGAT CTCCTGACCT CATGATCCAC
CTGCCTCGGC CTCCCAAAGT GTTGGACTAC AGGCATGAGC CACCGCGCCC GCGCGGATGG TTAAACATT TTAAAAATAA
ATATTTTAGTG CTAAGACAGG ATATGGAGCA ACAGGAACTC CTATATGCTT GCTGGTGGGG AATGCAAAT GGGTACAACC
ACTTTTGGGA CAAACAGTTT TAGTAA

SEQ ID NO:828: (Length of Sequence = 402 Nucleotides)

GGCTGCTTGC TCCACTCAA CAGGTATCTG GGAGCCAGCA CTCTGGCAGT CCTTCTAAGC TCTAACTCTG GTTTTACTGT
TTTNNAGGTG AAACCTTTGT CCTGGGGAAT AGTCTGGCCC GCTCCTTGGA ACCACACTCA GACTCAATGG ACTCTGCCTC
AAATCCCACC AACCTTGTCA GCACCTCCCA AAGGCACGG CCTTGCTTT CATCTGTGG CCTCCACCA AGCACTGCCT
CAGCTGTGG CAGGCTATGC TCCAGGGGTA AGCTTACCAG AGTCTTGGCC CTNCTCCCT CCTCACTCT TTCTTCACT
TCCTTCCTGA GCTCTGGGAG GCCAGAGAGG ACCTAGCTCT GTTGCCCTCT GNCINGTGGT GGGGACTAGG GACTGGACTT
AA

SEQ ID NO:829: (Length of Sequence = 417 Nucleotides)

ATCGGTTAGG AGTCGGCTTT ATGTGGGAAG AGAGAAAAAA ACTTGGTGAA ATGCTTTCTG GACTAATTGA AGAAAAATGT
AAACTACTTG AAAAAATTAG CCTTATTCCA AAAGAGTAGT AAGGCTATGA AGTACAGTCA TCCTTAGAGG ATGCCAGCTT
TGAGAAGGCG GCANAGAAGC ACGAAGTTTG GAGGCAACCT GTGAAAGCT GAACAGGTCC AATTCTGAAC TTGACGATGA
AATCCTCTGT CTAGAAATAG AGTTAAANGA AGAGAAATCT AAACACTCTC AACAAGATGA ACTGATGGCA GATATTTCAA
AAAGGATACA ATCTCTAGAA GATGAGTCCA AANINCCCTC AAATCCACAA ATAAGCTTGA AGNCCAAAT CATCTINGCA
AGGTTTCTTC CCAATGG

SEQ ID NO:830: (Length of Sequence = 404 Nucleotides)

GGTTTGAGAG TAGAACAGGA AGTTGTGAGT AGAGCCTTGA AGGAAAGAGA ACAGCAGGTG CATGNTCCC CAGGCAGGAC
TCAAGGTAGC CACTCAGGCA TCAGAAAGAG TCAGGCGGCC ATGATGGCTC ACACCTGTAA TCCCAGCACT TTGGGAGTCT
GAGTGGGGTG GNTCACTGA GGTCAAGGAG TCGAGACCAG CCTGACCAAC AGGGTGAAAT CCTTCTCTA CTAACTACA
AAAATTAGCC AGGTGTGGTG GCACATGCCT GGGACAAATT TGGGATCAGT GTTCTCCAGT CTGAACATAG TCTTCTGTTA
CCTGGGAGAG AGTGGTCAGG TACTTCCAGC TTCAGGGCAG CCAAAGCAT TGACAAAACG ACAGGTAGGA TGGGGGGAGT
AAGT

SEQ ID NO:831: (Length of Sequence = 330 Nucleotides)

AATTTACAG GTTGTGCTT CTGAAATCTG TACCTTCTTA CTCATAACAT TTAATGTAGC ATTTCTCAAC CTGACCAATC
TGCAGAAAAT ATATGTCAAT TATTAAATGT GTATACATGA ATATATGCAT TTTCCTGGTA AAAAGTCATA GTTTTNCATA
GATGTCATGT AATCTTTTAA GAGATTCTCA AATAGGAACA TGATTCCACC CCAATAATGG TGAAAAATGA TCAATTTAGA
TGAAAGGGAC CTCAACAAGC CTCTTGAGAT ATGAANCATA AAGAGNAAAT ATAAGCCGCA ACTTTTTGAC ATGACAGATT
CATAATGGTT

244

SEQ ID NO:832: (Length of Sequence = 402 Nucleotides)

CTGTTTCTC CTTTGTGTTT CCTATTTATN CTCCAGTGC TAACTTGATA TCINCTTGTG TGTACACGTG TGINTGTGTG
 CAAATATATT TCTAGGAACA AGAGCAAACA TTCTAGTAAC TATCATTCTC TGATGTGGAG AACTTGGGCA GAGATCTGAG
 TTACAGCTTT GTGGATTTAT TCTCTCTGAT GAGAGATCGC CCCTTAGAAT GTCATGGTCC TAACCCCGTC ATGGATACCA
 GGGGTGAATG GCAGGGTTCT TCTCTGCCC AGGAGGAAGG GTATGGGGAG CCGGTGCATC TTGACTGTCA GGTCACTGT
 CTTACCACCT TTACAGCTAG GCTTCTGAG GTGCCAGCGT CTCTGGGAA TTCAAAGTGT AGTTTAGAGG CAAGCTGGGT
 GA

SEQ ID NO:833: (Length of Sequence = 398 Nucleotides)

AGCCTTTTTC CAGAGATCAG ACCTCTTTAG ACATCTGAGA NTTCATACAG GAGAAAAACC TTATGANTGC AGTGAATGTG
 GAAAAGGCTT CTCCAGAAC TCAGACCTCA GTATACATCA GAAAACTCAT ACCGGAGAGA AACACTATGA ATGCAATGAA
 TGTGGGAAGG CTTTCACAAG AAAATCAGCA CTCAGGATGC ATCAGAGAAT CCACACGGGA GAGAAACCTT ATGTATGCNC
 TGACTGTGGG AAGGCTTCA TCCAGAAATC ACATTTCAC ACACATCAGA GNNITCATAC TGGAGAAAAG CCGTATGANT
 GCACTGACTG TGGGAAATC CTTTCACTAN GGNATCACA ANCTCCATG TGCATCAAAG GNTTACANC CCGGAGG

SEQ ID NO:834: (Length of Sequence = 394 Nucleotides)

CTTTTTGTG AGTCTGTAAA ATCATTTCOA GGTAAATCT AGAGCTTAAT CCATATGNG TGCCATCTTT TGCTTTTCCA
 CACCTCTNAT CCTAGGTAAG TNAGAGCTAA .GAGTATTIN CTGAGCTTCT ATTATGGGCC CAGCATATGT NATAATTCTT
 TTTACACATA GGAATCTGAG GCTTAGAGAA GTTTACTGAT TTACCTAATG GCACACCATA AGINCTGGGG CTAAGATTTA
 AACTCAGGTC TCTGACTTA ATTCAATGG TCAGCTCGAT GGTAATCATA ATAATATTGT NGTTGTGTG GTTGTGTGTA
 TNIATCAACA ATAGTAGTAG CTAAGTCCAT TTCATGAAAC AGCTCATTGG ATAGTCCCAT NTGGATAATT CTGA

SEQ ID NO:835: (Length of Sequence = 422 Nucleotides)

GCTTCTGCC TCTATAGATT TGACTATTCT GGACCTTICA CATAAACGGA ATCATGTAAT ATATATAATA AGCAAAAGGT
 AACAACAACC AAGCTGGCAA TTTGGTTGAT GAATGANIAA ACAAAATGTG CTGTATCCAT ACAGTGGAAA TATTGGTGCC
 TACTACATGT GGATGGACCT TGGAAACATC ATGCTGAGTG AGAGAGAGCC TTGGTATTGT TTCATCTCCC CAGGAGATTG
 CAAGGTGCAG CCAAGGTTGA GACCCACTGA CAAGCAATGG ATATGGTTGG GTGCAGATGA AATAAGSCAG CCAGGGGCAG
 GAGGGATGTC TCATTGAAGA TGACTGTTT GTGGGATGCC TAGCAGGGGT GGGGGGATGA GGTATTGATA ACCAGCAACC
 CCAATCTTCA ACACAGCGTG GA

SEQ ID NO:836: (Length of Sequence = 408 Nucleotides)

CTCAAAAGAG TTGGCATCTC AGAAGGGAAG TGTAAGINAG ACAATTGTCA TTGATGATGA AGAGGACATG GAAACAAATC
 AAGGGCAAGA GAAAAATTCC TCCAATTTTA TTGAACGAAG ACCTCTGAG ACTAAAAACA GAACCAATGA TGTGGATTTC
 TCCACTTCCA GTTTTTCAAG AAGTAAGGTA AATGCAGGAA TGGGTAATAG TGGTATCACC ACAGAACCAG ACTCTGAAAT
 TCAGATTGCT AATGTTACAA CTTTAGAAAC AGGTGTAAGC TCTGTGAATG ATGGCCAATT AGAAAATACT GACGGGOGAG
 ATATGAACCT AATGATTACA CATGTAAACA TCACTGCAGA NTACCCACTT GGGAGGATG TCTCTAACCG GGACTGCAGT
 CCAAGTAA

SEQ ID NO:837: (Length of Sequence = 347 Nucleotides)

TCGCTCTGTT GCCCAGGCTG GAGTGCAGTG GCACGATCTC AGCTCACTGC AACCTCTGCC TCCTGGGTTT TAGCGATTTG
 CCTGCTCAN TCTCTCAAGT AGCTGGGATT ACAGGCATGC ACCACCACTC CTGGCTAATT TTTGTATTTT NAGTAGAGGC
 GGGGTTTTGC CATCTTGCTT AAGCTGGTCT CGAACTCTG GCATCAAGTG ATCCATCCAC CTTGGTCTTC CAAAGTGCTG

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GGATTACAGA CGTGAGCTAC TTCACCTGGC CTGTGTGGCT CTTTTTCAAA AAAAGTTTAC TNGACTCTTG CTTTATTGCA
AGTCCCAGAA TGGATTTGAT TTAGGGA

SEQ ID NO:838: (Length of Sequence = 275 Nucleotides)

AATTGCCAAG GAAAATTTTA TTTTAGCTTT GCATTACAT ATTCTAAATA ATCCTTTCAC TTAATGCAAT CAGATTCTTG
TGACAAGCCA AATACTTGTT TTTTGTGTG TGTGTGTTTC CCTTCACIT TTCATTGTAT GCCCTCAGA AAAATCTGAG
AAGTGGGCTT CCATTTTGA AAAACAGGAC TTCCTAGTA CCATAGATAC GTAGATTGCA ATTTNCTTT TCCTGCAGCA
TACTGACCT TGTGAAATGA TGCTATGGA TACGG

SEQ ID NO:839: (Length of Sequence = 387 Nucleotides)

TTTTGTGINT GTGTGTAGAG ACTGGGTTT NCCATGTC CAGGCTGGT TTGAACCTCT CGGCTTAAGC NATCCTCCTG
CCTTGACTTC ACAAAGTGCT TGANTTACAG GTGTGAGCTA CCACGCTGG CCATGTTTTC TTGTGTGAAG GATCTGTTTA
GTTTATATC TTCTGTGGC TCATATCTAA TTTAGTGTAC AGTACCTGTG GGTCACTAGG TAGACATTGC TAGCAGACGT
TTAGAAATGA AATACTAGAG CTGGGAAAA AGTTGATATT TGAGATAGAG ACTTGAAGAA CATTAGCAGA GAGTTGGTAG
TTAAGGTCTG TGAGCTGGT AGCAATTCAA AATAAAGCA GAAGAGAAGA GGAAGACAAG GGTCAAC

SEQ ID NO:840: (Length of Sequence = 367 Nucleotides)

GTACTAAAGC CATGCAGGAA GGAGGAATA ATCAGTGAGC CACGGCTGA ACTGTGGAA AAGAAATGGA GGGCAAGGTC
ACAAACCACT CCTAATGTC TTCTAATTGA ATGTAATCCT CACTGTTTGT CATTATTGCT TTINATGGCC ATGAAATCTG
TTTTTCCCA GINCTCTAGT GTAATTGGA ATTAATTTCC CAGCTGCTTT ATTTTTTCC TAGAAGAGTC GGGGACATTT
TCAGGATTAG TAGAGGTGTT TCTACAACAC CTTATGCTT TCGATAGTGT GTAAGAGTTC ACCAATTGAN TTACCTTATT
CTGTTCAGAA GTAGTAACTA TGGAGTTTAA CCACTCTGGG ACATAAT

SEQ ID NO:841: (Length of Sequence = 346 Nucleotides)

TGGAAAGGAA AAGCAAAAGA TTGAAGAATA AAAACATTTT GTATTTGCCA AAACCTGTC TGTAGCAGTA AGTGTGAAAC
AAGTTTGCTA CATTTTCCIT TTGGTTTGA CTGGTGGG GCTTTTTGT TTGGTTGGTT TTAAAGGATT TAGGGGATTG
GCAAGTCAGT TTGTCAGATG TCAATGAACA GAAAACCTAA GAAAAAGGT AGCAAAAGTIN CTGCTGCCCC CAGATGGATT
TTNCTTAAG TAATTTCTTA ATCATTAGTT ACAGCTCTGT GTCAAAAGAT GTACATAGAA ATTTATGCTA GATTCTTAAC
ATCTTTCCTT ACTGTGTGCA GAAATG

SEQ ID NO:842: (Length of Sequence = 326 Nucleotides)

GTTCITTGAA ACAAACGAGA ACAAAGACAC AACATACCAG ANTCTCTGG ACACATTCAA AGCAGTGTGT AGAGGGAAAT
TTATAGCACT AAATGCCAC AAGAGAAAGC AGGAAAGATC TAAATTTGAC ACCCTAACAT CGCAATTAAA AGANTAGAG
ANGCAAGAGC AAAGACATTC AAAAGCTAGC AGAAGGCAAG AAATAACTAA GATCAGAGCA GAACTGAAGG AGATAGAGAC
ACAAAAAACC CTTCAAAAAA TCANTGATTC CAGGAGCTGG TTTTGTAAAA GTTCAACAAA ACTGATAGNC CACTAGCAAG
ACTAAT

SEQ ID NO:843: (Length of Sequence = 380 Nucleotides)

GGCCTTCAAA TTACAAAAG CAATTTACAT TATAGTAATA GTTCATGTTT ATAGTACAGG AACAAGAATG AGTTAACTA
AATATTCAA ATCAGTACAA GTNATNCT TTTTTTTTTT TTGAGACAGG GTCTCACTCT GTACCCAGG CTGTCTGTCT
TTGTATCCA GGCTGCAGTG CAGTGGAGTG GTCACACTC ACTGCACTT CAGCCTCCTG GGCTCAAGCA AGCCTCCCAC

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CTCAGTAGCC TCCACTCCT GATTAGCTGG GACTACAGTG AATGTGTGG CATGCCAGC CTAGTGGTAT TTTTAACAGA
TAANTAAGAA TGGAGGTAGT GGCAGAGGTG GAGTGAGAG AGAGACANGT AAAATATAGG

SEQ ID NO:844: (Length of Sequence = 257 Nucleotides)

TTTCCCTCTC GTTGGCCAGG CTGGAGTGCA ATGGCGTNAT CITAGCTCAC CACAACCTCT GCCTCCCAGG TTCAAGCAAT
TCTCTGCTC CANCCTCCG AGTAGCTGGG ATTACAGGCA TGINCCACCA CGCTGGCTA ATTTTNTATT TAAGTAGAGA
TGGGGTTTCT CCATGTGGT CAGTCTGGT TCAAACCTCT GACCTCAGGT GATCTGGCCA CCTCGGCCTC CCAAAGTGCT
GGGATTACAG GTGTGAG

SEQ ID NO:845: (Length of Sequence = 420 Nucleotides)

CTACACACAT CTTCATTAC CTGGCAGTAA GCTTGGAGAG TAAGTTTTC AGATGCAGAT CAGAAGAGAT TAGGAAGAGC
TTTGACAGAT ACCGCAAGTA TTGTATTTC ACTCTAAATT AAACAGAAAA CCCAGGAAGG GTTTTAGGCA GATAAATGGC
ATTATTTAGT TTCGTATTT AAGTCATCAT TTAGGTTACT GGGGGAGGCT GCCCTGAAGT GGATCAGAAG TAAAAGGCAG
AGATAACAGC TAGGAAGCTG TTGCAGTGAG CCAGGTGAGA AGAGAGGGCC ACCTGGACCA GGTAGAAGCA GTACAGGTGA
AAAAANTCAG ACACCTCCAA ATCTTCCTCA AGATTINATA CATTATTTGG CTGGGCACGG TGGGCTCACA CCGTAAATC
CCAGCACITT TGGGGAGGCC

SEQ ID NO:846: (Length of Sequence = 215 Nucleotides)

GNCTGGGTGA CAGAGTGACC CTGTCTCAA AAAACAGTGA TTGTTGTAA GGAAATTATT AAAACCTTGG TTCAATATCC
AATATCTTAA CTTTAAATTT TCAAACTTT CAAACTAGT AAGTATTACT ATGTCTAAAG CACAGTGAG TCCAACGGAN
TATGTAGCC ACATATATAA TTTTAACTAG GCCAGTAGTC ACATTATATA GAAAA

SEQ ID NO:847: (Length of Sequence = 266 Nucleotides)

ACACGAAGAA TCTCTTCAT CGCCAAACAG CTTCAGAGA TAGATGCTTT GTTTCGAATC GAGCATGCTA TTCCAGTGTA
CTGACATAC TGTAACCTC GTGTAGGCA CCTTTATGAA GAGATNAAGN CACTGGCATT TCAGTGGGAT TTAAAGCATT
TTTAATAGCT TCATGTACAG CATGCTGCTT GGTGNACAAT CATTAAATCT NCGATATTTC TGTAGCTTGA NTGTAACCGN
TTTAAGAAAG GTTCTCAAAT GGTITG

SEQ ID NO:848: (Length of Sequence = 275 Nucleotides)

CNCTCGGTC CCTTTTAAA AATTACTTTT CAGCCGGGCA TGGTGGCTCA NGCCTGTAA TTCCAGCACT TTGGGAGGCT
GAGGTTGGAG GNTACCTGA GNCGGGAGA TTGAGATCAG CCGACCAAC ATGAAGAAAC CCCGTCTCTA CTAAAAATAC
AAAAATTAGC CGGGCGTNGT GGCACATGNC TGTAAATCCAG CTACTCGGT GGTGAAACA GAAACCACCA ACGNCTGACC
TCAGGGAGAT GTCTAAGAGC TTCTGGCATG CCTCA

SEQ ID NO:849: (Length of Sequence = 318 Nucleotides)

GGAATTTTNC TAGTGAGGAG TGGAGGAAGG GGGCCTGGTG GAGGAGTAGC AGCCTTTNCA AAGGCCCTGA GGCAGGAATA
CCTGGGAAGT GGGGGCGTGC TTGINTAAGA TGAGGCTAAA GAGGAAGGCG AGGCTTTACT TAGGAGGAAT GGAAGCCAC
TGAGTGTAA AATTAAAGC AGINGGGGCT GGGCACAGTG GCCTACACCT ATAATCCAG TACTTTGGGA GGCAAGGTG
GNTGNTCAC CTGAGGTCAA NGAGTTNAG ACCAGCCTNG CCCAACATTG GGCTCTACTA AAAGTACAAA AATTAGCT

SEQ ID NO:850: (Length of Sequence = 320 Nucleotides)

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ATGTCTGCCA ACTCAGGAGC AGGGCAGGAA TCAAACCTTT TGGAGTTGCT ATCAAGTNCT TGATTTTNCA ATCCCAACCG
 TCCGAGAAC ACTAGATGTG TGNATGINTG CTGTGTGTG CATTTGTAGT AAAGAGGGGG TTGAGAAGTG GAAGGCAGAG
 NCAGGAGTNG GCATCTACCA NGGCATACAT NAAAGACCTT TACACCAACA CTGCCCTTCC CAGNAATGTG AGTGTAACTCT
 GGTTTCTTAA AACCTGGGGC TGCAGTCCAG ATAGTCATGG TTAGANCAGA TGGTTGAGGA AAGGTTCAAG GCAGTAGGAT

SEQ ID NO:851: (Length of Sequence = 170 Nucleotides)

CATCCAAGAT ACCAAGATAT ATGAGGGAAC ATTTNNTTTA ATAAAAACA CAAAACCACA AATCCAAGAG GCTCAGNTAA
 CCCCAGTAA AATATATACT AAAATACAAG NAAAGGGGAA AAAATGCATG NACACACACA TATAGGCATA TCATATTCAA
 ACAGTTGTTA

SEQ ID NO:852: (Length of Sequence = 256 Nucleotides)

CAAAGTACAC ANGIGTATTT ATTACATTTT GCAAGCACTC TGTTCTACAT TTCAAAAACG CCACCNCAAA GCTGTTGGCA
 CATTTATGTA CAAAACAGAT TAATGTAAAT GCCTGCTACA AAGCACTCTG TGAAAATACA AACTCTAATA CCAGAAATAA
 AAGCCAAAAG TGTCAACATC ATTACATAAG TNGAAAAGTC AGTTTNGAA ATTATCACA ACTGTTATGN CACGGAACGT
 AAATACTATA ATATAG

SEQ ID NO:853: (Length of Sequence = 281 Nucleotides)

GTATGTNGTT TCTCTCTCT TGCTGCTTCT AGGATATTIN ATCCTTGACT TTAGGGAGTT TGATTATNAA ATGCCCTGAG
 GIGATATTTT TNGGGTAA TCGGCTTGEN GTTCTCTAAC ATCTTTATAC TTAGATATTG ATATCTCCTT CTAGGTTTGG
 GAAGATCTCC GTTGCTATT TTTTGAATAA GCCTTCTACC CCATCTCTTT CTTTATCTCC TCTTTACAGC AAATAAAGTT
 TTAGANTTGC CATTTINAGG CTATTTTCTA GACCTGTAG G

SEQ ID NO:854: (Length of Sequence = 255 Nucleotides)

TCGTGCCAGG ATTATACCA GCTAAACCAN GTAATGGAGG TCTATGCCIG ATGAAGAACA CCTGTAAAAG CTGGAAGATG
 TGGCTGTCTT CTCAAATGGG CAGATACCAG CACAANGATA CAAGGATTGT AAAGACTCAG AATCATGTTA CTTCCAGAAG
 AAATAANATA AGNTCCAACA ATGAACACAA NATAATANAA CINAAGGANA TTTGGANAAC ANTGCATAAA CAAACAAGT
 TTAATGAATG ATTAG

SEQ ID NO:855: (Length of Sequence = 333 Nucleotides)

ATAGCTGTGG TGGTAACCCA CCAGAGTGAG CATGCTTNTT TCINAGGATA GACGTTGGGT AGTGGGATTG GGGAGAGGCA
 GGACAGAGGC TTCCGTGTG TCTCTCTAAT TCATGTGTTT TTA AAAAGGA TTGGGGCTTA CAAGTTTCAA ATACTAAGAT
 TINATAAGT CACATGGATT TTAAAAATC ACTCTATTGT ATGTTTGAAA CATTCATATA TTAAATAAAA AGGATTGGTA
 TTATATATGT NCTTGAGTTG CTATAATGTT TTACGGTTTT CTTTGCTTC ACTTTTGAAT TNINCGAGGA TCTCCTGGGG
 GAAGNTTCAG TCG

SEQ ID NO:856: (Length of Sequence = 230 Nucleotides)

TTINAGACAA AGTCTGTGCT TGTCACCCAG GCTGGAGTGC AGTGGCGCAA TCTCGACTCA CTGCAACCTC CACCTNCTGG
 GTTCAAGCNA TTCTCCTGCC TCANCCACCC AAGTAGCTGG GACTACAGGC ACGTGGCACC ATGCCTGACT AATTTTPTGT
 ATTTTTTTTA GTAAAGACGG GGTTCACCG TGTTAGCCAG GATGGTCTCG ATCTCCTGAC CTCATGATCT

SEQ ID NO:857: (Length of Sequence = 334 Nucleotides)

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AAAAACAATT AGTAAAAATT ATGCATTAAAG GAATTATTTA CTAGACTTTC TGGAAGTAAA AAATAAGTCA GCTGGTTTTC
 CCTTTGANIT CCTATATATT AAGGCAGAAT TCTCTATACT GTCCACCAAA ATCATAGTTA CAACTGTTTA CTGAAATGA
 TTTATATACT GCATTGACCT GGCATGTTAA TATTINOCCTA TAAATATCAC CACTTATCCC CATGCCCTAA AGCAGTTTTT
 TTAACCCAT TCTTCTTGG AGAATAATTA TAATACCTTA AATACAGAAC TTTGGGTTTC TGATCTTGCC ATAGCCATGT
 AGCACAGCCA CTGA

SEQ ID NO:858: (Length of Sequence = 301 Nucleotides)

GGAGAAACGC CTAATGTAGA TGATGGGTG ATGGGTGCAG CAAACCACCA TGGCACGTGT ATACCTATGT AACAAACCTG
 CACGCTCTGC ACATGTATCC CAGAACTTAA AGCATAATAA TAAAAAANTA AGAAAATGGA AATTGATTTT AAAAATTTT
 ACAATGTGCA TCAAAAGACA ACATTAAGAA AATTAACAGA NTGGAAGAAA ACATTGCAA ATAATTTATC TGATGAGGGT
 TTAATATCCA GAAAATATAA AGANCTCCTA CANCTCAACA GCAANAAAAG ACAACCCNAC T

SEQ ID NO:859: (Length of Sequence = 332 Nucleotides)

TGTCCTCACC CATAGAGCTA TCAGAGGGTG CCTGCNATTG GCAGACCCCTT TACATTTCCC TTTAATAAAT CACTTCCCTG
 CCAAGATCTC TGTCAAGGTT TGAGAAGTCA GAGCAITTAAG TTATTINCAA TAAATGGTAT GTACATGANC ATCAGCAAGC
 TCCAAGAAAT GACTCGAGGG CCTTTINACTA CTCAGAGAAT AAAGCAAAAA TGCCAGGTTT TCAGTGCTTG TCCTTTGTGC
 CAGGGATTTG GACGTGTTTT TGTTAAGIN CCAGCGTTGA GCTATGTTCC AGAAGATGGA GCCTCCAGA AATTAATTGT
 AGTGCTTGAA GG

SEQ ID NO:860: (Length of Sequence = 233 Nucleotides)

AAACGNTATG TGATTTTAGC ATTACAACAG TAATTCAGAA ATATCTCANN TGTTACATTG ATGTCATCAN TATTACAAAA
 AAGGAAAAAA AAGTGACAGG CAACAGTGAA GAGCACCAGA GACCCAGCGC ACACCTAAG TAGACCATGC TTCTTTCCCT
 CCACTGCCAG GTTATCGTCC CGGAAGCCC CCCACCCCT CGCTTCCTC CTCGCTTTC CCTAAAAAA NNG

SEQ ID NO:861: (Length of Sequence = 327 Nucleotides)

GGGCAGGTGT CAGCGCCCGT TTCACGCCA CGTCGCGGAC ATGGTGATTT CAGAAAGTAT GGATATACTC TTCAGAATAA
 GAGGAGGCCT TGATTTGGCT TTTCAGCTAG CTACTCCTAA TGAAATTTIN CTCAGAAGG CACTGAAACA TGINTTGAGT
 GACCTGTCAA CTAAGCTGTC TTCAAAGCC CTGTGTTCA GAATTINCCA CAGTTCAGTG TATATATGGC CTAGCAGTGA
 CATAAACACC ATTCTGGAG AACTGACTGA TGCTTCTGCT TGTAAGAACA TACTGCGCTT TATTCAATTT GAGCCAGAAG
 AAGATAT

SEQ ID NO:862: (Length of Sequence = 378 Nucleotides)

AATCAGGTCC ACATTTTGT CCTGGATGCT GAGTTTGCTG AGGGTTTCCA AGACCAGTCT CTGCGGGGAA AGGACGGCAT
 TGGGGCCCAG GGTGAAAAG GGTCTCTGG CTTCANCTGA AGGGCAAACCT GCCCAGTGTA GGAGTCCGTC CAGGACAGGC
 AGGCAAAINC TCTCGGGGTA TGGAGATAGG TCCAACCTGCC CCGAGATGTT GCGGAGTGTA ACCAAGGTGT TTTCCCGGAG
 CATCTCCAAG CAGTCCACC ACCACTCCAC TTTTTTGCAG CTCACCCCTT GGGTCTGTT CTINCTCCTT TTCATAAGTT
 AGTGGTGCCT GCTTTCGGT TCTGGGTGCT TTGTGGGTGC AGCAAGGATC AAGCTTTG

SEQ ID NO:863: (Length of Sequence = 374 Nucleotides)

TCAAATTAAT GGTTTTATTT CCATCTGTAA CACTAGCAGA GGAGTCCAAA GCAGACTGAT ATCCATGGAT ATAGTTTAAA
 TGTAAACAAAG AAAGAGTTGA ACTATGTACA TTGAAAAAG GAAAGACATT TTINCATACC AACCTTTCCC TAGTTCGCAG
 TTTCTGAATA GTAGAAACAA AACACATTT TAAATCTTC TATCAATTTA ATTTAGGACG AAGTAACACA ACTTTTATAA

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TTAACCACTG AAGINGTCIT TAAGGACAAA ACTTAAATTT TAAATGGGT GTTACCATAT TTATGAGTG GACTGACTCC
AAGGTTGCCT TGCTCCAAGN NTGGGCATCG TGACATTGCC GTGATGCCA GAGG

SEQ ID NO:864: (Length of Sequence = 223 Nucleotides)

AAGGGGATAG AGCAGACACT CCGCAGGTNT CTTGAGATTA TCATCCGCTG AGGGTAGAGC TGAGGGTGGG AGGGGAGTNA
GCAGACACTC GGAAGGTGTC TTNAGGCTCA GGGAGTTATC AATTATAGAA TGTTGTTGAG TTGGAGGAGG TGGCTGGTGG
CCCATCCTGT TTTTAAAGT TTCANCTGTG AGGTAGGGCC AGTAGGGCAA TCCTGAAGAA TGG

SEQ ID NO:865: (Length of Sequence = 228 Nucleotides)

GAACCGGGA GGCAGAGGTT GCAGTGAGCA GAGATCACAC CACTGCACTC CAGCCTGGGC AACANAGCAA GACTCCGTCT
CANAATTTTN CCAAATCTG ACGGAAAGAA AAGAAACAA TGGTTTCAAT GGGACGGAGG GTGGGGGAGG GGGGGAGGGT
GAGTAGGAAC CAGGAGGGCT GCCTGGGGTG GGGGAATAAN TTAATAAAG GAACGAGTTA ACAACAGC

SEQ ID NO:866: (Length of Sequence = 328 Nucleotides)

GCACCAGTC AGAGAGGCC CAGGCCACTG AGCCCGGAG GAGACCCAGC CGGCCAGCCA GATGTGTGCC TGANTGCCAC
AGACTTCAAG CAGTTTACAA ACGAACTCA CTGTTAAAG CTGTTAAATC TCATTAAAC AGTAGACGAG TGCTTTAGAT
TCTCTGAATA TCAAATAATA TATACAGATA GACACTGAGA CATGACAGTC TAATCTAAG CATCTTTACA GATGCATTIN
CITGAAAAGT TAGTCTTCTT TTTAACTCIG AATCAGTGAT AAAATGTGA ATTTGCAAAA GAGTACAGTT TTAAGCAAGA
NTAGAGTG

SEQ ID NO:867: (Length of Sequence = 361 Nucleotides)

GTTTCATGGC ATGTAATAAT TATGTGAAT TCAAATTTA GTGTCCCAG TTCTACTGGA ACGCAGCCCC TATGTGGTTC
ATGINTTGCC TCCAGCTCCT TTCACACTGC AGCAAAGCAG GGAGTGTAAC GTACACCCCA CGGCCACGGG GCCTAAATA
TTCTCTATCA GACCCCTAGA GAAAAATATG CCGACCTGG ATGTGACTGA GGGTGGGAC TTGGGTGAAT GCCCGCCAGG
AGTGACATCA AGGGTTTGAA GCAGACCTC TGTCAGGAG GGAGCGGAGG CAGAGCAGGG ACAGTAGTNA GGAGGCCATC
TGTTGGTACT TAGGCAAGGT GAGGAGGATG TAGGAGGCAA G

SEQ ID NO:868: (Length of Sequence = 364 Nucleotides)

AAAGCAGCCT TCAGGCTACT CTCCTTGTG TCCCTGCTCT GGGGAAGAAC ACTCAAGCAG CTTTAGAAAA AGTCCACGTG
GCAAGGAATT GTGGTCTTTT GCCAACAGCC ATGTGAGTNA TCCATCTTAA GAGTGGNTCC TCCAGCCCCA GTAAAGTGTT
CAAATGACAG CAGCCCTGGC TAACATATTG ACTGCAACTT CATCAGGGAA CTTGAGCCAG AAAAATCAG CTAACCTGCT
CCTAAACTTC TGACCCACAG AAATGGTGAG ATAATGAATG CTGTGTTTAA GCTGCTAAGN TCTGGAATAA TTTGTATTC
AGCAGTAGNA TAACATAATC AANGCCACCC AAGNATCATT TCCC

SEQ ID NO:869: (Length of Sequence = 383 Nucleotides)

AGCGACAGAC AAGTGAGCAT CACTACCAGA GCTCTGCCCTC CTGTGAGATC AGTAGCGACT TTAGATTGTC ATAGGACCAT
GAACCTGTG CATGCGAGGG ATGTGGGTG CACACTCCTT ATGAGAATCT AATGCTGAT GATCTGAGGT GGAACAGTTT
CATCTGAAG CCATCCCTGT GCCCTACCT GTGAAAAAT TGTATTCCAT GAAACCAGTT TTTGGGGCCA AAAAGATTGA
GGACCGCTGC TCTATAAGAA ACTATTACTG AAATAAGGTA TAAAGTCTTT ATCTTACTTA TATTATATC CTCTATGGTG
TCCACACACA AGGTGCTTTT TACACTTAAG TTGTAAACT AAAATATTNC TTAAACTTT AAT

SEQ ID NO:870: (Length of Sequence = 409 Nucleotides)

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CAGCTTTGCA AATCAAATAG AATTCATTTT GCCTCNCNTN ATCTTACAAC TATTCTCTGG AGTAGGCAGG CTGGTTGAAC
TTCAAGAGAA GAGGCGTTCC TGAGAGCCTC CTGGTGAGC TTGCACACCT GGGGGCCAGA TGINCTTTGC CCTCCTTGCA
AAGCCTCTCT AGTCTGGTGC CCAGAGAATA CAGCTTCAGC AGCAGCTCAC TTTGCTTTTN AGTTTAGATG AGAAAAACA
GCAAAATAGT CCATCAAGGA CAAATTCCTG CCAATGGATT TNCITTTGCA AGGANGTCA CCTTTGNNCC TCAAGCATCA
TCTTTAAGTT GTGAATGCCT GATGGGAGGT CCAGGTTGNN CTGTGGGAGG AGCTNGGGGT GGNITCCAAA ACCACCTGGG
GACCACTGG

SEQ ID NO:871: (Length of Sequence = 290 Nucleotides)

TCTTTGCATT GATAGATTAG TTATTTATGC CAGINGTCTC TGCTGGCTT GTTTTGGTTT TNATTGCATT TGTTCCTAG
AGATTCGTTT TAGTTTINCA ATTTCTTTCT CTGTACACCT GCCCTCCCC CACCCACCA CTGGGTTACT ACCTCCTTTT
TGGCACTACA TGATGCCTTA AGCCAGGNT TGCCTAAGCT TTCATAACAG ATCCCAGCAC TGCTCATCCC CAGTGGTGA
GGTNTAAAT GGGATAACCT GATAGTGTGG GAAGGCTGGC TGGGGTTGT

SEQ ID NO:872: (Length of Sequence = 313 Nucleotides)

AAAACAAAAC AAATTAAAA GCACTCAAAA ATAACCTCAA AAAGAGACTA GTGAGTGTCC CTTAAGGAAA GCCCTACCTG
CAGATTCCCA CAGAACTCGG CCCAGGCACT TAACCTCCAT CTCAGCTCTG GTACAGCTCA CTGCGTACAG TGTGTACCAA
ACTCTTATGC CTGNGTCTG GATAAATTCT ATTTATCTCT GAACCTCAAT TTATTCAAAT CTAGTTATGA TATATCATAG
TGCTTGTAAT TGTGTAAAA TATAGANGTA ACATACAGCA TGTGTCTACA CGNTAATAA ACTGGTGCTA ATT

SEQ ID NO:873: (Length of Sequence = 300 Nucleotides)

TAGTAAACAA GTATTACTTC AACTGATACA ATGGCTACAT GACATCAAAG TACTATAAAT NATCAAACT ATCGTACAGA
AAAATTACAA ATTCGTTGCA AAATACATTA TACTGCTACC ATTAAGAAAA AAGTGCTTTT NGTTTCTCTT TCTTTCTTTT
TTTTTTTTTT TTTTGCCAGA AAAGTATTCT TNCATATAG AAAATCCTAC ATGTACCCCT GCATGIGGCT AGGNTATATC
ATAACGGAGT TTGTACTGAG TCCTTCTGAT TTGCTGGATG AAGGGCTGAA AAATATATTA

SEQ ID NO:874: (Length of Sequence = 364 Nucleotides)

GAGTCATTGA TGCTGAGAGA TTGTAAGAA TATACTGACA GCATCCTTGT AGCTGCATCA CAGTAAATCG GACTTCTGAA
TCAAGCAGCC CAGCCTAGCA GCTGATAAGA GTGAATGTAG GTGAGAAGCA TTACCTTATT CTTGTAACAA GAGAACTGTT
TTGTGATAAG TGAACTAGG AATGTAGAAG AAGAAATATC CTATGGCTAT TATAAAGAN GAAGGACTTG CCTGANTGAC
TTGGTGGTGC ACCAGAAAAA AACTTTCAGA AGAATGCTTT CTGTTAAGCT GCTGCATTGT TCTGGAGGA AATGTTATTT
CTAATGCATG TTATTTCTTC AAAAGATAGG ATAACAAAGA ATTG

SEQ ID NO:875: (Length of Sequence = 341 Nucleotides)

ATCAGTCCAA TGCAGATTAG TATCACTTTG CTCATAAAAG AGAGTATAAA GGTCTTGAA GTTTTIGAAA GGAGCGGCTN
AGCTGACTGT TAAGGAAGCT ATCTTTTGTG TACAAGAAAT TTATACITTT CCCITCTAAA TTTACAAAAC AGAATATTAT
TAGAGACAAC AGAATACATT TACAAAAATG GCATCAGAAA TAATTGANTA CATTTGTGAC AATATCTTCT ATTAATGAAA
TAAATGTATA TTTNATATGA TATTTGGTCT TTATGGGAAA ANTAATATAA TTNCCAATAT TCTAAGGNTG ANCAAAGNG
GTTTACAAAT AGCATGCAAG G

SEQ ID NO:876: (Length of Sequence = 327 Nucleotides)

GTTCANCTT GTGGGTCAAC TTCTAATATT TGATGGTGGC TACACTGTGA CAAGAAAGGT TTTTINAGCTT GTTGGGGTCA
GTGGATGGGC ACAAGGGCAC CCAGTGGTGG TGCCCGNCC AGGGAGGAGA ATACATTGTA GAATATAAGG TTTGGAAGTC
AAATTATAGT AGAATGTGTA TCTAAATAGT GACTGCTTTG CCATTTTATT CAAACCTGAC AAGTCTATCT CTAAGAGCCG

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CCAGATTTC C ATGTGTGCAG TATTATAAGT TATCATGGAA CTATATGGTG GACGCAGACC TTGAGAACAA CCTAAATTAT
GGGGAGA

SEQ ID NO:877: (Length of Sequence = 404 Nucleotides)

ATTTGGCTCC TGAATGTTGC AGAAACTGG TTTTGTACAC TGGGGAAGGA GAGAGTGAAG ACCCTCCAGT TGGTTCTCA
GTCAGCTCCG TTCTTGGTGT CGCTTCTTGT CAATTTTTTT CCTCCCCGG CCCTTCTGT GAGGGTTAA AGGGCCATCT
CCAAGCCAGG TGGAGCCCCA ATCCCATTTGA CCAAGAGGGC AAGGTATGGG GTCACCTTCT CATGGAAGCC CTCCTCTAA
AGGAGCCCAA AGGGGACACC TGCAGAGGGC GGGCTGTGAT CTGTGTGTGA ACTTCAACAA AATCTCAGGT TAGTATTTCT
CCAATTTTCTAG TTGAACACAG ATGTGGTATA CACTACAAA TGCAGATTCT GGTGCCCTC TCCAAGAGTC GGCCTCAGTT
AAAA

SEQ ID NO:878: (Length of Sequence = 340 Nucleotides)

TGTACCGCTG TGCTGTGGC ACGAACACCT TCAGGGACTG GAGCTGCTTT TATCCTTGA AGAGTATTCC CAGTTGAAGC
TGAAAAGTAC AGCAGAGTGC AGCTTTGGTT CATATTCAGT CATCTCAGGA GAACITCAGA AGAGCTTGA TAGGCCAAAT
NTTGAAGTTA AGTTTTCCAA TAATGTGACT TCTTAAAAGT TTTATTAAAG GGGAGGGGCA AATATTGGCA ATTAGTTGGC
AGTGGCCTGT TACGGTTGGG ATTGGTGGG TGGGTTTAGG TAATGTTTA GTTTATGNTT NGCAGATAAA CTCATGCCAG
AGAACTTTAA AGTCTTAGGA

SEQ ID NO:879: (Length of Sequence = 372 Nucleotides)

GAAAGATAA TGAAGGAATA ATGCAAAGCT GAAGGCTGTG CCAGATGTAA GAAGTGATTA TGAAGGATAA AAGAAAAGGG
CTTTCCAAGC AGGGAAGAGG CATCAGAGAG AAAACCAATT GTGAGCCAG TATTCTGTCA CAGGGACATT TGTCCTTTC
CTTTAATGCC CAGTAAGGGT CTTCTCAGGT TCCATTAAAC ATGCAGAATC ACAAGACCCC CCCAAAGTTA CCATGGTGCC
AACCGACTCA AAACAATACA GACAAGAAGC TCAGCTCATC AGGAAGGCTG CAGCAGGCAT ATGGGAACCA TCTGTCTCCA
CAAAGGACAG CTNAGATGGC AAAGATCCCT ACAAGGCTCC ATATCCACGG GG

SEQ ID NO:880: (Length of Sequence = 405 Nucleotides)

GAGCTAGGCA CCAGGCATTC TGTGAGGCC CAGGAGTTTA AGAAATGAAT TAAATATTCT CCCCTGCCCT CTTTGAAGTC
ACTCTAACGA GGAGACTTAA GANTTATTTT GTAATCTCTA GTTATATTIN CTGAATTTC GAGCTTAAAT ATTATAC TTC
AACATGAGTC ACACCTTTAT TTATATGTTG GTTTGTCTCA GCTGTGTGT GGGTTGGTGG AAGGAGACCA CACATACATA
CACACAGAGT ACATACATGC TGTGTATGTT ACACACATAC TCACACCCCA CAAAGTGAAG CTCCATGCTC ATTTTGTTTA
ACAAAGACTA GAGAGGCCCT GCAGACAACA GCTACCTGGA GCAGGAACAA GTGAAGCATG TTTCTGAACC ATTTCTCAAG
TCACA

SEQ ID NO:881: (Length of Sequence = 336 Nucleotides)

GTCTTTNCAG TCAAAAGTCC TTGAAGCTGG GACCCTTTGA AAGTCTGTCA GTTACATGTT GTTGGTAGTG GCTTGTTTTG
ACCGTTTCAA AAAAGGAAGA AAAAACCCT TAAATCATTT TTCCCTTCTC TTTTCTACTG CAAAGGCCGA CGAGATTGAA
ATGATCATGA CGACCTTGA AAGGGCAAAC CAGAGGGCAG AGGTGGCTCA GAGAGAGGCG GAGACCTTAA GGAACAGCT
CTCATCGGCC AATCACTCCC TCCAGCTGGC CTCACAGATC CAGAAAGSCA CCAGACGTGG AGCAGGCCAT AGAGGTGCTG
ACCGCTCCA GCCTAG

SEQ ID NO:882: (Length of Sequence = 369 Nucleotides)

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TGCCATTAGC AACACTGTTC AGATGAGATA ATTAAGAAAA AAAGCCAATT GAATGATTGA GTGAATGANT GATTGAAAAAT
CTTTCCGAAG TTATAATAAT AATTGTGATT ATTGGGGTCA AAGCAAAACC ATTTTAGTCT AAAAGATTGT AACTATATACC
AACTTTTACC CAATTGGGAA TGAAAAATTA CATTTCACAA CCATGTAGAA ATTCTGANCT CTTTGAAATA TTCCCTTTTG
TGGGAAAGAA CCAGAAATTC TTTGTCATAT GTACCCATTT ATCTTATTIN AGTTACCCAA CCAAAAGATA AAATAATATT
CTCAAAGAGA TAATTGACTG GAGGAGTTTA AAGTGTTTAT AAATATTAG

SEQ ID NO:883: (Length of Sequence = 369 Nucleotides)

CTGCCATAAG AATATCAGCC TGGGGGCAGT CCAGACGCAG CCCTTTGTC TCCTTTCTGT TTGCCTAGTC TCAGCAGACT
GTGATCACAA GGCATGTCT GTGGGATTTT NCCTTTCCTT TCTTGATCT CTCTGTGGT TCTAGGTTGT TTGGTTGTTC
ATTGTTATGG TGGCTTTTNA TTTTAACGCC CCTTGAGCCC CATGATGGCT GGTGTCACCC TGTTCTTTTA CACTGTTGGG
CCAGGTGCTG CTTGTCTTC TTAGGCATC ATCAATTGCA AATATTTCTT TTTGCTCCCT TTATGAAGAT GTCTTATAC
CCTTGCTTTT CCATATTTT TMTGGGCCAA GCAATGCCAT CTNCTTTTA

SEQ ID NO:884: (Length of Sequence = 327 Nucleotides)

AGTTCATCTT TTTCCAGAGG GGTCTGGTG CCTTAAAGG GGTGCAGGCC GAAGAAGATG GTGGCTTGGG GAAACTGGAG
CTGAAGTTGG ATTACAGAACT CTGAGGCACC GGGATGGGGA TGGGAATAGG GACTGGCACA GGCAAGGGGA CGATTACAGG
ATACGGCACC AAGAGGGTGG CTGGTGGAC CAGGGGGAC AAGGGGGAGC TAAAGGGCTG TGGGGGCACA GGGGCATAGC
CAGGAGGAGG CTGACAGGGT GGGGGCCGA GAGTGCCCTG GGAGGGAAAC AAATTCTTGA GCACAGCTTC AAATGGCAAA
GTGGGCT

SEQ ID NO:885: (Length of Sequence = 380 Nucleotides)

CCAAAGCTT ATCCACCATG ATCAAGTGGG CTTCATCCCT GGGATGCAAG GCTGGTTCAA TATATGCAAA TCAATAAATG
TAATCCAGCA TATAACAGA ACCAAAGACA AAAACCACAT GATTATCTCA CTAGATGCAG AAAAGGCCCT TGACAAAATT
CAACAACCTT TCATGCTAAA AACTCTCAAT AAATTAGGTA TTGATGGGAT GTATCTCAA ATAATAAGAN CTATCTATGA
CAAAACCACA GCCAATATCA TACTGAATGG GCAAAACTG GAAGCATTCC CTTTGAAGAC TGGCACAAGG ACAGGGATGC
CCTCTCTCAC CACTCTATT CAACATAGGT GTTTGGGAAG TTCTGGGCCA GGGGCAATTT

SEQ ID NO:886: (Length of Sequence = 400 Nucleotides)

GGGATGACTT TAAACGAGAG CTGGACAGTA TTAATCCAGA AGTCTTCCT GGGTGAAAG GAATGAGTGT TTCANACTTA
GCTGACAAGC TCTCTACTGA TGATCTGAAC TCCCTCATTT CTCATGCACA TCGTCGTATT GATCAGCTGA ACAGAGAGCT
GGCAGAACAG AAGGCCACCG AAAAGCAGCA CATCAGTTA GCCTTGGAGA AACAAAAGCT GGAAGAAAAG CGGGCATTTG
ACTCTGCACT AGCAAAAGCA TTAGAATATC ACAGAAGTGA AATACAGGCT GAACAGGACA GAAAGATAGA AGAAGTCAGA
GATGCCATGG GAAATGGAA ATGAGGAACC CAGCTTCGCC GACAGNAGGC TTGCCACAC TGATTCACTT TCGGAGATGT

SEQ ID NO:887: (Length of Sequence = 363 Nucleotides)

TAAATAAAT GCTCTGGATG GGAGAAATGT GGAAGTACT TTGGAAGTGG ATAATAAGTA AAGGCTGAAA GAGTACTGAT
ATACATGCTA AATAAAACCA ATATTTCCCT GAATGANCTA TTCAAAGCAA TTCTGGTGGG TGTTAGACAG GACATAGAGA
CCTGGAGAAG AAGCTCCAT TTTCATAAG AACACAAACA ATCATGTATA GAATGTTGGT AGAAATATGA ATGGTGAAGG
TCAATGTAAT GAAGTCTTAG ATGGGAATAA GANAGGTTAT TAGACAAGGG AGAAAAGGTA ATCCTTGTTA TAAAGTGGCA
AAGGAAGTGG GCCTGAATTG TATTCATGTA CTAGTGCTTT CCT

SEQ ID NO:888: (Length of Sequence = 318 Nucleotides)

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ATCTTGCATG ATTAACTACTA TTGGCCCTGIN CCCTTTATCC TCAGCTGGTT GTACAATTCT TGAATGCTTT CTCTTCCCC
 TGAGGATGCT ATAGATATTG TCCTACTGIN ATCTGAAATN AGTCGTTTTG GAGAAGTTTC TCCATCCAGA TACCTATAGA
 GTCIGCTTTT TTTTTTTTTT TTTTTTTTTT ATATGCAAAC NCTCGCTGTA TTAFTCAGGC TGATCTGAAT CTCTGNGCT
 TTAGTGTGT GACAGCTTTG GCCTCTTAA ACTGCAGNT TACAGGCATG AGCCACAGTG CCTGGCCATC AAGTAGCA

SEQ ID NO:889: (Length of Sequence = 349 Nucleotides)

ACAGAAATCT ACGTAGACTT CTNCCAAATG CCACATGAGA GCAGTGGCAG AATACAGAGA GACCGGCGAC CACAGCAAGG
 AACTGTAAAG GCCAACAGTC CTCAGGCATG CAGGCTGGG CCAACAGCAC AACGCAGAGT CGCTTCTTCT CAGTCCAGCA
 ATTAAATGA CCATGGCAGC CAGGGTTTCA TTAGGTTACT TTCAAAAACC ACCTTTGCTG GAAAAAATGT TTGGTAGTTT
 AATCTGCATA TACGGACAGT CATGCACCAC ATAATGATGT TTAGGTCAAC GATGGACCAC ATATTCAATG GGTAGTCCCC
 TAAGGTTTAT AACCAGCATA TTTTTTACT

SEQ ID NO:890: (Length of Sequence = 341 Nucleotides)

GTNGTAGGGG TTCGTAGGTA GGGCTAGTAG GTAGGGTATG TAGGTAGGGC TAGTAGGTAG GGCTAGTAGG TAGGGTTGCT
 AGGTAGGGTT CGTAGGTAGG GTTAGTAGGT AGGGTTCTGTA GGTAGGGTTA GTAGGTAGGG TTCTAGGTA GGGCTAGTAG
 GTAGGGCTAG TAGGTAGGGC TAGTAGGTAG GGTTAGTAGT TAGNCTAGT AGGTAGGGCT AGTAGGTAGG GCTAGTAGGT
 AGGGTTCTGTA GGTAGNGTTC GTAGGTAGGG TTAGTAGGCG GTCTNCTCTT CTTCACCCT GGNINCTGT AAAACNTTAT
 TTACAAGCA ATAGGAATTT G

SEQ ID NO:891: (Length of Sequence = 344 Nucleotides)

GACCTGGCTG CGCACCAGGA CCGCNTGGAG CAGATCGCG CCATTGCCCA GGAGCTCAAC GAGCTGGATT ACTACGACTC
 CCACAATGTC AACACCCGGT GCCAGAAGAT CTGTGACCAG TGGGACGCC TCGGCTCTCT GACACATAGT CGCAGGGAAG
 CCTGGAGAA AACAGAGAAG CAGCTGGAGG CCATOGACCA GCTGCACCTG GAATACGCCA AGCGCGCGGC CCCCTTCAAC
 AACTGGATGG AGAGCGCCAT NGAGGACCTC CAGGACATGT TCATCGTCCA TACCATCGAG GAGATTGAGG GCCTGATTCT
 CAGCCCATGA CCAGTTCAG TCCA

SEQ ID NO:892: (Length of Sequence = 367 Nucleotides)

CTGGGCAACA TGGTGAACCC CATCTCTGCT AAAATACAAA AATTAGCTGG GTGTGGTAGT GCCTGCCTGT AATCCAGCT
 ACTCGGAGG CTGAGGCAGG AGAATTGCTT GAACCTAGGA GGTAGGGTGG AGGTGCACT GAGCCAAGAT AAAAAGAGTG
 AGACTCCGTC AAAAAAAAAA AAAAAAATA TATATATATA TATATATATA TATATTNGN CTCCAATCCC ATCTAGGTG
 CTGCAAATGC CATTATTTCA TTCTTCTTTA TGGCTGAGTA GTTTTCCACT GTGTATGTAT ACCACAGTTT ATCTTCTGT
 TGATTGATGG GCGTTGGGC TGGTTCCACA TTGTGCCAG TTGCAA

SEQ ID NO:893: (Length of Sequence = 220 Nucleotides)

GCAAAATATT TATTCCAAGT TAGTATTTT ATGCAGTAGT TTCCCCCTCG AGACTGTGA TAACCAATC TTTTAAATCT
 GTAAATAATG TTATCAAAAT AATCTAATC TTTGAAATCT CACAAAAT TATATTTTAC AATCCACCT GAATATCAAG
 GCTGCAAGAN TAACACAACA TTTCTATAT CCAATATTT TACAGCTGTA CCCAAAAGG

SEQ ID NO:894: (Length of Sequence = 313 Nucleotides)

GGGATTGGGA TTGTTTGGCT CTGAGGCTGT TAAGTCTGGA CTGATGCTGG AAATAATAT CAATGTTTAA CAGGGTTGAC
 TGTCATTAAT GATGTGCTA GCTGTGGGTA CAGATGCTTT GCACATTAAT ACCCTTAAT CTCACAATCT TCCATGGGG

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ATGTATTAGA ATCCCCTTTT ATAAAGGATA AAGGTGAGGG TCAGAGAGAC TAGGAAGCCT GTNCAGGGTG ACACAATACA
AAGTGTGATA AATTGGGTTT GTAATCAGCC ACTCTGCTTA TTAACATCAG CAGTATGGTT AATGGGGTGA CCG

SEQ ID NO:895: (Length of Sequence = 304 Nucleotides)

GGTCTAGATT CAGTTATGAA TGTAGGCATT AGTTAAAATT AACAAAGATGC AGAGTATTAA TTTCTTAAGA CAACA-AGTG
ATTTCTGTAA GTTTGAGCCC TATGTGAAA GCATTGTGGA ATCTTAACCT TTTGTACAC ACTCTGTGG GACGTATCAT
ATAAATGTCA GCACTAAGTA ATGTCTGTG TGTGGCTGAA TATTTTNCGT AGATGTTTTT GAAGTTGACA TGACTTACGT
GCATTTAAAT ATATATTGCC ATCCCTTAGT TTGTAATTAA GGATTINGGA ATATGGGTTG TGGG

SEQ ID NO:896: (Length of Sequence = 337 Nucleotides)

GCAAAGTATT TCATCATATG CATGTACTGT ACCTTATTTA GCCAGCCCCA TTTTGTGTTG CTTGTGGAGA ATTACAATAG
CTGTTTTGAC TGTGTATCA CATGCCAGGC ACTGTACTGT GTATTATCTC ATGTAATTCT CATAGTTACT GCATGGTGTA
GGTATTTTNA TCCCCAGTTT ACAGGTAGAG AAACGTGAAC CAGAGATGTT AAATAATTG CCCAAGTTTT TTGGCTGATT
ATACTGATGA AGATACTGAT ACTAGCATTC TGTGTGTCAGT TATTTGCCAG ACAGAATTCT TTATTTTTTA ATACATAATA
TCCATTTACT CTGAGG

SEQ ID NO:897: (Length of Sequence = 316 Nucleotides)

NATCACCTNA GGTACAGAGT TCNAAACCAG CCTGGCCAAC ATGGCAAAC CCGTNTCTA CTAAAAATAC AAAANTNAGC
CAGGTGTGGT GGTATGTGCC TGTAAATCCA GCTACTCAGG AGGCTGAGGC AGGAGANTCA CTTGAACAGG GAGGTGGAGG
TCGCAGTGAG CCGAGGTTGC AGTGAGCGA GATTGCACCA CTGCACTCCA GCCTGGGCGA CTNAGCGAGA CCCTGCCTCA
AATAAAGAAA TAAATAANTA AAGTGGGGAA GTTAGTGGTT TCTGGTGAT TCAGAGTTGT GTACCCATCA CCCTGG

SEQ ID NO:898: (Length of Sequence = 200 Nucleotides)

GAGATCTGGG GCTGGGGTAT GGATGATGGG GGAAGGGCG GTCGCTCTG CCACTGTCAG GGACCAGCCG GCCAACGCCC
ACCCGNAAG GTGTCTAAAA ANITNAGCTT TTCACCCACC TGCCCTTTC TTTCATCCC ACGCTGTTTC CTTTCAAAGT
TCTGGGAGGA CGAACTCACC GAGGCGAGAA GNTAACATT

SEQ ID NO:899: (Length of Sequence = 264 Nucleotides)

CTCTGTAAGT TAGCGGTAT GTTTTCAGCC CCATGCAAAG GCGCAANACN TCAGACAGCG TGGTTCTNIN AACATNAGTG
TGTGGTGCCT CCCAGGAGCA GGGATTINAG CNAGGCTGCT GACACATAAA CACACCCCA CCTCCAGAAG CAGAGGAGAG
GAGCCAGGG CCAGGCGAG TAGCTCAGCA AGGACCCAGC ATGCTNCAGG TGGGGCCAGT AAGAGTCACT TCTCCAGCNA
GGGTGAGAGA GGAGAGAGGC AAGA

SEQ ID NO:900: (Length of Sequence = 265 Nucleotides)

GCAAATGGTA AAAAACCAAG TCAGCAGAAG AAATTAGAGG AGAGACCACT TAATAAATGT AGTGATCAA TAAAGCTAAA
AAATACCACT GACAAAAAGA ATAATGAAAA TCGAGAGTCT GAAAAGAAAG GACAGAGAAC AAGTACATTT CAAATAAATG
GAAAAGATAA TAAACCCNAA ATATATTTGA NAGGTGAATG CTTGAAAGAA ATTTCTGAGA GTAGAGTAGT AAGTGGTAAT
GTTGAACCAA AGGTTAATAA TATAA

SEQ ID NO:901: (Length of Sequence = 381 Nucleotides)

CTTCTGTGCA TATAAAGAG AACAGTCTGG NCACTTGAAA ACAGACACCT TCTGGTTTTC AATGTGTTGG TCAAAGTGGC
GATACAGCAA GGTTCGAGG GTGAACACAG TGTGCGACAT GGAACACTTA TATAINATTT TNGGTTCTCC TATCTTGATG

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CCAGGATGCT GTGTGTAGGC GTGGGAATNT GTGCTTGGGG CAGACTTAAA CGCCATTGGA CAAATAGGAC ACTTGTAGAA
GACTTCACAG TGAGAACCTT GAATNTAAGA CTTACAGAGCA GCCACATCAG AGTACACAAC CATTGCAAAT GCACCACATC
GAAACCAAC TCTCCTCGTG TAGTNCAGAC AGTTCTTTGT GGGTGGGGT CTNGGAAGGT G

SEQ ID NO:902: (Length of Sequence = 331 Nucleotides)

GGTGGCCAGT GATCTCCITT CTATCACCT ATAGACAGCT TGCTACAGG AAAAAAGAAA GCCAAACACA GACAAGCAGT
ATGAGATACA ATGAGCGCCC TTGGGCCATT AAAATATGAT TGTNTGCCCA AGGTGCGCTG GNTTGCAAAC AGCTCTCCAG
AACCTGCAGC CAGCACAGAC CAAAGTCAGG TTTGTINTCCT CTCTGTGTA TGAACAAAGG TTGATTCCAT ATCGTGGCTA
TTGTGAATAG TGGCAGTAAA CATGGCAGTA TTGTATGAAA ATATNACAGA TTAGNCCCTT TAAATATGTG CACTATGGNT
GATCTATCAA A

SEQ ID NO:903: (Length of Sequence = 389 Nucleotides)

AGCAATACTA AACATAAATG TAAATTGGGC TAAATGCTCC CAATTAAAAG ACACAGAGTG GCAAGCTAGA TAAGGAACCA
AGAGCCATTG GTATGCTGTC TTCAAGAGAC TCATCTCACA TGCAATGACA CACATAGACT CAAAATAATG AGATGGAGGA
ACATTTACCA AGCAAATAGA NAACAACAAA AAATATTTCT AATAGATTTC TGCTTTTAAT AATGAAATAT GTCAAACCTC
TATAAAACT ATATGTAGGA AATATAAANG TTTATATATA ATTATGTAA TGGNTAATAG TAACTGAATA GCTAGTATTG
AATAACCAAG CTTCCTTTTG TTGTTTGNNA CATTGGNGNA ATTGAACATG CTAAAGGTA TTGGGAAGG

SEQ ID NO:904: (Length of Sequence = 285 Nucleotides)

AAATCAAGGA CCGTTTAGAT AGATGATGGG CTAGGCAGGT GGGGAAGAC AGAGCTCACT GCCCTNTGGG GTCTCTGTGG
GGCCAGCCCC TNATGCCCAT GTGGCCACTN ATGCCAGCT TCCCCAACA CCCCANCACA GGCCAGGTC AATATTACAA
AAGTGAACAA ATGCAACCTG TTCTGCTTT NACAAATGAC ATGCTCCAT CCCCAGCCAG CAGGGGTAGG GGAGGNCGGT
TGAAAGTGNC ACTCCGTTA AAAAGGCAAC AACTTTTATA AAATG

SEQ ID NO:905: (Length of Sequence = 374 Nucleotides)

GAAGCAAAAA GTTGAACCTT TTAAGTGCT GAACACAAAT CCAAATCGA ATGGTTCAAG CAGCGTGAA ATCGCTCTTC
ATAAAGTGGG CTTAATTCTC TAGTTTAAST TCTTTTGATG GAATGAATTA ATTAATGTGT CAGGTGGCTT ATTTGTGGAT
GCCATGATTG ATGATGTTCA TTTTAAGCTC TTACCTATAG TACAAGTACA TGATGCTACT GAATATTTTT TCCACTTGGA
AACTGTGAGC TGGGTGTGTG CATTAAAACA CACATACANA CANAATCANN AAACACTGCG GACTTTTCAC TCAAGCTGGG
TCTTTTCTTC CCCAGTGGTA AGGGCAAATC CTGGCTTANC TAACCAACAC CCAC

SEQ ID NO:906: (Length of Sequence = 375 Nucleotides)

CTGACTGAAA GGCTCTTTCC AGCTCCAACA CATGAAGGTT CCATAATTTT CCCCAAATGT CTGCGCTCT GAAAACTTCA
ACTATCTTAA TATTGTGAC ATTTATGCT GTGTATGGCA ATCTGATGGT AAAAGGAGCC ATATGTAAAT AATAACTGAA
ACTTTGTCAA AATAATGTA AGGAAACATA ATTAGCAAAG CAATATATAA TTNCAAGTCC ACTGATTTAG AGAATCAGAA
GTAACANTTA GAATCAGAAA TAACAACTAT CTGGCAGGGA TGGAAAAATG AGAGCAGATA TAAAAGGTGT ACCCCAACCC
CTGACCCAC TGCCATTG GGTGTGCACT ATGINTTCC AATATTAATA TCITT

SEQ ID NO:907: (Length of Sequence = 390 Nucleotides)

GTGCTGACTT CAGCAGCCCT CTGAAAGGCC CCTTCCATAA GCTGGGAAAG TATGATCATG GTTTCATCAT CCTGTGTGGT
TATTACTTCA AGGTGACCA ATCTGAAAGC TCTGTGTGAA GAAGGGGACT GAGTGGCTGT GAATGATGAG ACCGTGTGTT
AAAAGCCAGG CTTAGCCTGA GGTCCGGAAG AAGCAACCTC AATGCTGTGC TTTACCATAG CACCACCTGC AGGTATCCAG

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GAATAGAGAA CCCAGCTGAG CGACTCATGC TTNACCAAAA ATACCCAGAG CAGTGTGTCT CTACCTTTTT AAGCCCATGC
TCACTAGTGG GGAACAAT TTTACCCCC TGTATTAA TATGGGATT TCAAGGCAA CAAAAGCATT

SEQ ID NO:908: (Length of Sequence = 207 Nucleotides)

CTTGATACA GGTGGTAAGT TATTACATTA TTCTNCTC CTGCTACCT GCAGTTGGTT TTATAGGGG CGTTAGTACA
CTTCCCAAAG GCGTTGCCG CAGGTTNAGA GGTGCACATT GAACTCCCTC ACCAGGCAGA TGGGAAGTGT GGCCATGAGA
GAGAGCTTCA GGGNCTING GNTATINACA TCGCTGGGCC AGGANAT

SEQ ID NO:909: (Length of Sequence = 339 Nucleotides)

GCAAGAGAAC CTGATATAAT ATCTATAAAT TTGATTCCC TGGGGTATAA CAAGTAAATA ATTTTAAAT GGTGCTTAGC
AAGATTGGTT CATGGNAAAT GAAGCAATTA TGGCTTGANT TTATATGTAC AATATTATT GTCTTAATTT TAATTTAAA
CGAATGACAT GTCTCTTTTT TTAATAAAG TCTCTTTTA AAGATCTGT AGTTGATGTG ATGAGCTATG CACTGCTAAA
TATTTATCCA CACATAAATA TTGANAAGG AATATGNNAT AGTCATGGGA TGTAGTTCA TCTCAGTGCT CCATGGAGGG
AGTGTTTTCA CCTCTCTCT

SEQ ID NO:910: (Length of Sequence = 372 Nucleotides)

CTCAACTGCC ACTCACTAT CTACCATCCA CTACCCANTN ACCACCCACC ATGACCCACC ATTTGCCATC TACCCATCCA
TCCATTCTAT AAATAATTAG TAAGCACTTA ATGCATGCTA GGTATTATTT TAGGCACCAG TAAGACAATC ATGGGNAAAA
AAGACAGACA ACCCCGACC CTCCCATCCT CAGGGAGCTC TATTCCAGTG AGAACAATCA ATGTGCTAGA TTGTGAAGGT
CATCAGTGCT TGCTGCCCGT GTAAGACTGA GGTCCCAGG CCGAGGACC AGNCTGGGCC AGGGCTTCCC AGGGGTCINC
TGGGGGA CTCTCAGGAG TCCAGTGCT GCCCTTAGC TNAGCACTG GG

SEQ ID NO:911: (Length of Sequence = 377 Nucleotides)

GAACTTCAA AAAAAA AAGAGGAGTC ATAATAAATA TTNACTGTC TAGTCAACC AATTATGAA GCCTGATTAT
CTAGCTNAGC CTCGGAGAT TGCTACCGGA AATCTCCCA GATGTTCCC CTCTAACC AACTNCCAC TGINTGSCAG
GAAGCAGCC GGGCATCTGC ATTCCGGAAG CCCAGCTGCT TGGGAAGAGA GAGGGAGCGG CCTGCACGTN ACTCAACAGC
CCTGCTGCT AACCAGTTAA CCAGTTCTCA GTTGGGTCA CGACCCATG AGCGACCCAG CTTCTTCCC CTCAGGTTGA
TATTGTGCTC CAAGCTNGG GATGCCCCG GGGACTATGT GGAGGGAGAG TTCCTTA

SEQ ID NO:912: (Length of Sequence = 370 Nucleotides)

ACAATCTACT TGCTACAGAA TCAGGATGTA TTINCCATTT TATAATAAAC TACAGAAGGT AGATTCAA GGTAAATGGCT
GTTATGAAA CCTACTTGAG GTTGTCTGCT AAAACCAACT CAGTGTGCAA AGCGAAATAC ATTTNCTACT TCAATAGCTC
CTCATACTGC ATCTGTCTGT AGAGTTTATT TCAGTAAAC TGTTTACTAT TTCATGATGA GTAGCTAGAA TTAAAGCATT
AAGTAGCTTG AGAAATAAT CTATATAAAT CTTTATATCC TACATATGGC TATAAAATA AATTTATAAT TTTAAAAAT
GTTTAAATA AACATTATT TTTTACCCTA CCAAAGTAAA GGTATACAG

SEQ ID NO:913: (Length of Sequence = 313 Nucleotides)

GTATCTGGTT GCCACATCCA AGAAGAAGC GTGNNINCG CTGGTCTTIN CTTTCTCTA TAAGGTGGTG CAGGTTTIT
CCGAGTACTT CAAGGAGCTG GAGGAGGAGA GCATCCGGGA CAACTTNTT ATCATCTACG AGCTGCTGGA CGAGCTCATG
GACTTCGGCT ACCCCAGAC CACCGACAGC AAGATCTGC AGGAGTACAT CACTCAGGAA GGCCACAAGC TGGAAACAGG
GGCCCCGG CCACCAGCCA CCGINACCA CGCGGTGTC TGGNGTNGC AAGGCATCAA GTATCGGAAG AAT

SEQ ID NO:914: (Length of Sequence = 389 Nucleotides)

TTACAGGCGC CTGCCACCAT GCCCGGCTAA TTTTNAGTAG AGATGAGGTT TCACCATGTT GGCCAGGCTG GTCTCAAAC
CCTGACCTCT GGIGATCTGC CCACCTCAGC CTCCCAAAGT GTTGGGATTA CAGGCGTGAG CGACCGTGCC TGGCCTTCTC
CACTGTTTTC ATAGTGAAGA AAGGACACCC AAATTTTGAT CTGGTTCAGC TATTCACTAT TCTATCCTGT GTGGCTTAA
GCAAGTTACA TAACTTGCCCT ATATCTCAGT TTACTTAGCT ATAATATAAA TTAAATTGGT CAAATGTTCT CTAAAGTCTT
ACTAGTTACC AGTGTTCAT GGGCCCAACA GCATCTACAT TACCTGAGGA GGCTGGTAGG AAATGCAGG

SEQ ID NO:915: (Length of Sequence = 328 Nucleotides)

CNCCAGCAGA TTTTNATTAG ATGGAAGATA ACAAGCATT A CCNCTAGGT AAGTGGTAAG AAATGGCAAG TACAGCCAAG
CCACAGAGGA GTGAGGACAT TACTGGCTAT GGAATGGGT ACTTATGAAA TCTAAGGGTT GGGTCTCCTG ATGAACCTCTA
ACTACCCAGT AAGCTCTTCT CTTTGGCACT CAATATGACC NCTGCTGGCA TGAAAGGGNC TACAGTAGCT ACTTTCAACT
TGGCCAACAG TTCTTCCAGT TCTGGTCGAG CTTTGAATCG TCCCTTTGAA GTCTTTCTTC AGNTGGTGCT CCTTCAACTT
GACAAGTC

SEQ ID NO:916: (Length of Sequence = 365 Nucleotides)

CAACTTCAAG GTGCTGCAAG AGCTTTCAAG AAGATGGGTG TTGACAAAAT CATTCCTGTA GAGAAATTAG TGAAAGGAAA
ATTCCAAGAT AATTTTNAGT TTAITCAGTG GTTTAAGAAA TTTTITGACG CAACTATGA TGGAAGGAT TACAACCTTC
TNTGGCGCG GCAGGGCCAG GACGTAGCGC CACCTCTTAA CCCAGTTCCA CAGAGGACGT CCCCCACAG CCCAAAAAC
ATGCAGACCT CTGGCCGGCT GAGCAATGTG GCCCCCCT GCATTCCTCG GAAGANTCCT CCATCAGCCC GAAATGGCGG
CCATGAGACT TGATGCCAA ATTCTTTGAA CTCAAACCA CAGCT

SEQ ID NO:917: (Length of Sequence = 400 Nucleotides)

GCATTATTTA TTGAAAAC TAATTTTTT TGTA AAAACC TGATCACATA GAGAATATCA GTGGCTATAC CCTCTCTGGG
CATCAGTTTC CTCATCTGTA AAGTGGGGAT AATCAGAGC CCCACCAG TGGGCTTCAG GGAGGAATAA ATGCATTAC
ACATGGCAAG TCAATTAGGA CGGTGCCTGA CAGGCTGTCA GCGCCCAAGG TTGTGACTTT TGCTTTTCTT ATGTCTACTC
TGCAACCAAC TTTAGATAGT GGTAGANTAA TCAGGAGGCC CTCTTGAATG GGATATTTTG CACAGAAGAG GTCCAGAGC
GAGTGTGTGT GACATGGGAG CAGAAGACCC GGGGTTTNAG CCAGGCTCTG CCACTCATAC GGTTTACAAT TTTCAAAGGG

SEQ ID NO:918: (Length of Sequence = 348 Nucleotides)

CTATTGCACA TGGTAACTCT GTCATACATC TATAAAGCCT AGTAGCTGTA TTGGGTGAGA TGAAAAAAC TGCTTATATT
CCACAGCAAC ATAATTACAA ATAAGTTTTA ACCTATTAAA GTACAGAGTC TCTCTCATCA CTTTCAAAGC AGGACCCCTAC
TTACCAATAA TTCAATAGCAT ACCTCCCCIT ATTTTAAAAC TCATATGATA GCTGATTTCC TAACTGTAGC AATCAGGATT
CTTAGAAAGA TTCGAAACTG AATTTAGCTA ACTAAGGAAG CGGATTCAT TAAAAATATT GGGTTAGTTT ACAGGAATCA
GTAGTGGAGG AACCAGGGTT GCATAAAA

SEQ ID NO:919: (Length of Sequence = 345 Nucleotides)

GGGATGACTT TAAACGAGAG CTGGACAGTA TTAATCCAGA AGTCCTTCTT GGGTGAAAG GAATGAGTGT TTCANACTTA
GCTGACAAGC TCTCTACTGA TGATCTGAAC TCCCTCATTG CTCATGCACA TCGTCGTATT GATCAGCTGA ACAGAGAGCT
GGCAGAACAG AAGGCCACCG AAAAGCAGCA CATCAGCTTA GCCTTGGAGA AACAAAAGCT GGAAGAAAAG CGGGCATTTG
ACTCTGCACT AGCAAAAGCA TTAGAATATC ACAGAAGTGA AATNCAGGCT TGAACAGGAC AGAAAAGATA GAAGGAAGTC
AGAGGATNCC ATGGGAAAAT GAAAT

SEQ ID NO:920: (Length of Sequence = 299 Nucleotides)

CCCAGTACT CAGGGAAGGG GCAGGAGAAC CACTTGAGCC AAGGAGTCA AGGCTGCAGT GAGCTGTGAT CACACCACTG
CATTCAGCC AGGACAACAG AGTGACATCC TGTCTCAAAA ATAAATAANT TTTTAAATGA TGAAACTAAC TAAGGTACTG
AGGAGGTAAG ATATTTCCTCC ACGGTAAGTC ATTCAGAAAC TAAATGTGAA AAACCAAAAG AAGCCTCTGG GGTTAGTATT
CCCAGTCTCC TTGCTGCCCC AGGACCCAC ATTTGTGTAA GTTGCTAATT GCACAAGGG

SEQ ID NO:921: (Length of Sequence = 234 Nucleotides)

ATGAAGCAGA GGCAACCAAC AGAAATTGAC ATCAGAAACT CTGCTGGNTC CCCACCAGCA TGCTACCGAT GANTCCTGCT
CTCTTCAGA TGAAATTTTA TTTTITINCC AATAAGGCCA GCCCTACCCT GGAATCTGGA ACCANTCTG GCCCAGGGTA
GAAAGGCTAC CAAGCACCTA TGGTAGAAGC CCTGGTGTCC AGGNATGCCT TGCNCCTTAT TATTGACCTT CTCT

SEQ ID NO:922: (Length of Sequence = 328 Nucleotides)

TAGCAGGGTT ACTGCGCTTG GCTGCGGCCA AGGGAAACT CTGCAGGCC TATTACTTGG CGGCCTTTAA CTCTTATAGA
ATTGGGAGAG AACACTGACA AAAGCGAGGA CATGATTTIN CGGTACAAA TNAITTCCT TGCTGCTTT CTCTCACCC
TTTINAATTT TCCTTTCTIN CTITTCCTGT CTATCTTACC TTCCCTCGT GATCCCTGCC AGCCCTCCT TTCTTATTAT
AGCTGATCAT GGCAGTATTG TTTTINCTG GGTAAATATC AGAGTGGGAT TTAGAGAAAG CTTAGCAGGC CTAGCATGAG
GGCCTTAG

SEQ ID NO:923: (Length of Sequence = 371 Nucleotides)

CAGGAAACCT ACTGTGAAAA TGCAGAAAA CAACAGCAA AATTGATTGT TGACTCAATA TGATATATAG TTCAAATGTA
AACAAATGCT TGINAGCAIT CCACATCACT GAAGGAAAAA AAGTAAGTTA TTAITTCCTA TGTGGGAGT TAGGTTGCTA
TAAGCTTATG ANCACACACT TTCAGTGAAT TTATGTAGAA TCGGAAGCAC TTCAITCTCC CCTACCACA CATCACCCC
TTGCTCCTCC TCGACAGTG CAAAATGATA GGGCATGTA GGGGTGTAG TGAATNGAG AAGGCATGCC CCATCTCAAG
AAACAGGGTG GACCAGCCAC AGCTTTCAGC TCCANTTGT GATACAGGAA T

SEQ ID NO:924: (Length of Sequence = 371 Nucleotides)

ATGATCTGCT TTTTITGAT ACCTTACTT TINAGT AGGNGCGGG TTTCTGGAGC CGACTGAGGG ACTGGAGAAG
GCTACGGGG TCCTCGCCT GCCAGGCCA TCCTT CTCTTATCA TTTGGTATG CAAATCGCG TAAAGTTTTT
CGAAGGGGG TGCTGCTCC TCTTGGCAGC TCTCTTCT GACTTTGGC ACCAGGCTG CTCATACCTG CAGCCTTTTC
GGCCCTCTG GCCCGCAGG GTCCGGCCTC CGAAGCACT GCCATGGCCC GGAATAGCAG CCCNGAGCA AGG

SEQ ID NO:925: (Length of Sequence = 317 Nucleotides)

AATGCTTAT GATCAACTTG CCATAGGACT GATGGATTAA CCAGTGTTCG GCCTTATTG AAGTCTATGC CCTGCACAGC
TCTGTATGT ATTNAGATG CTAGAAGTTT TTINAGCATG TNATGTGIGA TTCTGTGTTG AATCTAGGN ACCTGTCCA
ACTTGGTCT TTTCAAGGT TGTGTTGGT ATTCTGGGTC CCTGCTTTT CCATATGNAT TTNAGGATCA GCTTGTCAAT
ATCTGCAAAA AAAAAATCAG CTATATTTT ATAGAGNTT GTATTGCATC TTAGGANIG GTTGTGAG TATTGCC

SEQ ID NO:926: (Length of Sequence = 247 Nucleotides)

GTTATTCATA CCACAGCATT TAAAAAGCAA TCCGCAAGTN ATAAAAAAA AAAAAAAA ATGATGTGAC ATATCCATTG
CCTGANITGC CTCTTTTGA AGCCAGTNTT GGGATTATAG CAGAGGAGTA GCAGAAATAA NTATATTCAG ACACAAACAT
ATAGATATAA TAATATCCAA CCNCITATA GTATTAGGG TCTCGTTAAA ATGTTTACCA TTTGCTCTC CTAAAAANTA
TATAAAT

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SEQ ID NO:927: (Length of Sequence = 286 Nucleotides)

GGCTGTCATG AGAATCACTT GAACCGGGA GGCGGAGGTT GCAGTGAGCT GAGATCATGG CACTGCACCC TAGCCTAGGT
 GACACAGCAC AAAAANAANC AATGTTCCAC AAGTCAAAAA TTGTTTTCAG GGAGTAGAAA AGTAGTAGGC TAGGTATCAA
 AGGGTATGAA TGACTAAGTT CCTTCTATAA TATATTGACT ATAGGTTAGG AGATACACTT TCAGTTCCCTG TTTTNGTAG
 ATCTCCCAAT GATCTGTCAT TTAAGAGTAC ACACGATGAG TGGAAA

SEQ ID NO:928: (Length of Sequence = 349 Nucleotides)

CTTGTTTAAC CAGIATTTAT TGCACATGGT TTTGTTATCT ATTGCATGTG GTAAATTACC CCATACTTTG CTTCCTAAAG
 CATTAGACAT TTCTGTAGGT TAAGAATTCA GAAGCAGCTT AGCTGAGCAG TTCTTGCTCA AGGCTGTCA TGAGGTTGCA
 GTCAAGGAGC TGGCCAGGC TGCAGTCATC TGAAGGCCCTG ATTGGGGCTG GAAGACTCCC TTTCAGATG GCTCCCTCAC
 AGGCTTGGCA TGTCAAAGCT GGATTTGTTG CAGGGGACCT CCATTCTTCC CCACATGGGC ATCTCCATAG GCTGTTTGAC
 ATGGCAGATN GCTTCTCCA GCAACTGGG

SEQ ID NO:929: (Length of Sequence = 395 Nucleotides)

AGAGGAGGCA GCAGCCACCC CCAAGAAGAC TGTACCTAAA AAGCAAGTTG TGGCCAAGGC CCCAGTGAAA GCAGCTACCA
 CCCCTACCCG GAAGTGTCT AGCAGTGAGG ATTCTCTCAG TGACGAGGAA GAGGAGCAA AAAAACCCTAT GAAAAATAAA
 CCAGGTCCCT ACAGTTCAGT CCCCCGCT TCTGCTCCCC CACCAAGAA GTCTCTGGGA ACCCAGCTC CCAAGAAGGC
 TGTGGAGAAG CAGCTGCTN TGGAAAGCAG TTAAGACAGC AGTGATGAGT CTGATTCAAG TTCTGAAGAA GAGGAAGGAA
 ACCCCCACT AAGGCGAGTA GTCTCTAAAG CAACCACTAA ACCACCTTCA GCAAAGAAAG CAGCAGAGAG CTCTT

SEQ ID NO:930: (Length of Sequence = 214 Nucleotides)

ATCCACAAT GACAATCTCT CTTCGACAA TATTGGCACT CCATTCAAAC CTGTGTTTCTG GTCAGTCCGC ACTTCATCAT
 CTCCCAATTT GTCCAAACA TACTGTAGCT CAAGTACAGT TTTTAAACGT TTCTGTCAG CTTCCTCTCT CATAAGCTGC
 TCCCGACGTG CTGTCTCTT NATTTGTTT TGAATATCTT GACTTAGTGC CATG

SEQ ID NO:931: (Length of Sequence = 245 Nucleotides)

GAAAGTNTC ACAACATGA TGCTTATCTA ATAAATATC ACTGAGCAAT AAGGAGAAAT ATTTTAAATA GATTTGAAGT
 TGTAACAAA TAATTTAGAG TCCAAAGAGG ANAAGANAA TTAAGTCTGT TTTTATCCC TAGAAGTCTG AAACCTTTACT
 GGATGCTCA ACAAGACAA ACTTTTATTT GTATAAACA GTAGANTCA TGAAGGGAT AATNCTTTTG GAACAGGCTT
 CTGG

SEQ ID NO:932: (Length of Sequence = 303 Nucleotides)

CATATTGGGG GCCCAATATA AAGCAAAGCT GGAAGAAGGG ATGATCCATG TATTINIGGG GATGGGATAT GGACAGGGAA
 ATAGTGTCC AACTCCATGC TGAGTGTGT TTTGAATTGT AATGTGAAGT TGCCACCATA CCAGGGCTAT GACTGINTAC
 GATGCTCAC CCTTGTAGGC TAGTAGCTTT GCAGTGGGAA AAGATGACAG GGCCACTTGT CCAGGGCATT CAGGTAATAA
 AGTCCCTGAG CTCCAAGTTG CTAGATCTAA GGAAGTATTT TTCCCTTCAT GTCAAAGATG GGG

SEQ ID NO:933: (Length of Sequence = 186 Nucleotides)

CTCTTTTGGG CTGTTTCANA TCTCCGGCGA ATTGAAGCA GTGATCTCTC AGGTGCTAAC CGGNATAGTA TTAGAAGACT
 CCAATATCTT GCAGCCTGTG GGACTTACTG TATTTATCTT TGTTTGTGTT CATTTGCTTT TGGGTTCTTG GTCATGAGGT
 TTTGCTAAG CCAAGTCTT CAAGGG

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SEQ ID NO:934: (Length of Sequence = 336 Nucleotides)

GGGAAACGT ATCAGCACAT GAAATACCTT GAACTATTT CATTATATA ATTTGCTACG TGTCTTTTGC AACATAGTGA
AAAATAATCA TGTCTGATGT TTAGTAGGCA CATAATAAAT AGTAATGGAA TGAATGGTTG TATATTTAGA GAGCCATGCT
GAAAGGTTAA ATAGCAAAT ATGACTACTT GGAGAATAAT GTTAAATGT CAAGGAGAGT AGTGTATAT GAATACTCAG
ATGGATGGAT ATATAGANAA TGAGAAAAGC GACAGAAGGA ACTTAAAGAG NTTTTAAAA TAGCTTTGTC TAAAGATTAA
AAATTAAAGG TTCTAA

SEQ ID NO:935: (Length of Sequence = 383 Nucleotides)

AGGTAAGAAA ACTGCTGAGT GGGCTCCTTG TACCAGCACC AACCAGCAGC CCTTGACAGC ATAGATGGGA TGAGTGTAAG
GGCTATCCTT AGCATAAGG AAAGACGGTT ATAAGCTGAG AAGATTGAAA GAAGAATGGA GCCACAAAGA GAATAGCATA
AATAACAAGA AGGAAACATG AAGAACAAGC ACTTAAGNTA TTAACITTCA GTCTTTCTCC ATTTCTTGAT GTCTAATGAG
GCAAATAAC TGGGCAAGGA CCACCAAGAT GAAGAAGTAA AATAAAATGT CACAATGAAA TINAGGTGCA ATAATACAAC
TGTTGACTGA CTTTCCAAA CCACGGTGAT CGGTAGAGTA TCATCAATGT TACCGAGGAT TTT

SEQ ID NO:936: (Length of Sequence = 204 Nucleotides)

GAAGCTGTGC CACCTTCIN AACTTTNATG AGCTGCCINA GCGCCAGCC ACCTTCTGTN ACCCAGAGGA AGTGAAGGG
GAGCCCTGG ATGCCCCCA NACCCCACT CTGCCCTCAG CCTTGAGGA GCTGGAGCAA GAGCAGGAGC CGGAGCCCCA
CCTGCTAACC AATNGCGAGA CCACCCAGAA GGAGGGGACC CAGG

SEQ ID NO:937: (Length of Sequence = 386 Nucleotides)

CTAACTAAAT AAGGGTTGCC AGATAAAGTA CAGAAGGCC AGTTAACTT GAAATGCATA TGANCAAGAA ATATATTINA
GTATGANTAT GTCTCATGCA ATATTTGGGA CATAATTATG CTAAGAAAG TATTACAGT TTINCCAACA TTCAAATTGG
AATGAGTGC CTGTATTTIN ATTTGCTAAA ATGGSCAACC CTAAGCTGGT ATCTCTACAG TTACATACAC TTACCAACCC
CACCCATTCA TACTGGTCCA AGTTACACCC CAAAGAGGG CAGAAACAGA ATCTGAACAA GCTCAAGTTT NGAGGGCAAA
AATGTTTCAT TCTGCCCTCT GGATTNCTGT ATGAAGACTT TTGTTGTGAA AGATATGAAT AGAACC

SEQ ID NO:938: (Length of Sequence = 349 Nucleotides)

GACACTTTCA GAATTAAGAA GCCTTGCCCT CTTTGGTGT CTTACAAAT GINTTAAGTC TATTATAGTA TTCATTTTAT
TTTGAAAGCA ATAAATACAA TATTAGTACA AGCACACTGT CAAGAAATCC CTAGAATATG GCTCTCTGA AGGTGACAT
GGGTCTGCC CTGATGTATC TTTTCACTC CAGCATCCAG ATCAGAGTCA ACAACAACAA CTCTACAAAT ATCAGGCTTC
TTGGTGAAA GAAATCTGGA CATTTTINCT ATGAAAAAA AGTTAGGTTA CATGGCATT ATATTTTTC TAGACTTAAC
CTACAGAAA TGTTTCAAGC TTATAAAA

SEQ ID NO:939: (Length of Sequence = 374 Nucleotides)

GAAATAAAGC CTCACAAGAA ATAAGGTGCT TATGGTGTTA AGTTACAATG GAAATAATC AATGGCATTT GTATGCATGC
TGCAATGTG ATGTAGATCA GTTCATAGGA GATGGGGCAA CAAATAAATA TCACCATGGG GATGTGATCA TCAAAACCCA
GGCTGTGGAA AACTGTCAGT CAAGTTTCIT CAACATATTG CAAGAAAAAT ATGATGGCTT GAAAACTAT AGATGAAGCA
ATTTAACAA CCTACCAATC TCATTTAATC TTGATTACTT TTAATAAAG ATTAATAAGA TGACAGAGAA AGGGTTTAAA
AATTTGTAAG ACACGGCTGG ACGGTGGGC TCACACCTGT AAATCCAGCA CTTT

SEQ ID NO:940: (Length of Sequence = 385 Nucleotides)

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GTAATCCAG CTACTTGGGA GGCTGAGCA TGAGAATTTT TTGAACCCGG GAGGCGGAGG TTGCAGTGAG CAGAGATCAC
 GCCACTGCAC TCCAGCCTGG GCAACAGAGC GAGACCCGTG NTCAAAAACA ACAAATAAA TTTCCTTTTA ACATCTGINC
 CAAAAATGAG ATAAGCGTGA TCAGGGCAAG TCCATCTCA TCACTCTTTC CCTCCCCACT GCCCTCTCCA CGATGCCAG
 CTGATCAAAA GTCAITTTTA CTCATAAGAC CAAAGTATCA TGGGATACTG TGCAGTINGA GAGCAGGTG ANCATCAGAA
 ATAATGCTG ACAATAAGT AAAAGATGGG AGAAAAGCAA GGCCNATTGT ATATAATACA GCTTC

SEQ ID NO:941: (Length of Sequence = 406 Nucleotides)

GGTAACAGGT TTTTACCAAC AATTGCTTGT AGCTAATGTA GAACATACTT GAGAAAATGG CTTCTGTGAA AGACCAGTTA
 GTACCAAAAT AATCTGGCCC AGAAAAATAG CCACCATCTT TGACTACATT AATAGAAATA GAATAACCCC CAAAGGGAGA
 TGAGAAGCAT TCTAAAGTGC ACTGATCATG AGTTTCTATG TGATGATTG TGTCATTTG GAGCTCCAGT GCTTTAAAGC
 TGAAATGAAT CCTGGCCITT CACCACCTC CCTGCCATA GTATGGTATA TCCTCTTATT CCTTCCCTCT TAGCTTACTG
 AGAGTGTAA TTTCAACCAG TTAAGGCCAA AGAGGACTAT TTTCTAGGAA AGGAGAGAGA GATGAATTAG CAGTTAATGG
 AGGAGT

SEQ ID NO:942: (Length of Sequence = 296 Nucleotides)

GATGGCTCAT GCTAGTTCAG CAAATATGG GCCCTTCTG GAGAAGAGAG GCTGTATCTC CATGCCAGAG CAGAAGTCAG
 CATCCGGTAT TGTAAGCTGC CCTTTCAGCG AATGGCTCCT TGAAGCAAA CCTGCCANTG GTTATCAAGC TCCTTACATA
 CCCAGCACCG ACCCCCAGGA CTGGCTTACC CAAAAGCAGA CCTTGGNGAA CAGTCAGACT TCTTCCAGAG CCTGCAATTT
 CTTCATAAT GTGGGGGAA ACCTAAAGGG CTTAGAAAAC TTGGCTCCTC AAGAGT

SEQ ID NO:943: (Length of Sequence = 223 Nucleotides)

GIGCCATTAC AACTTINCIG TAACCCTGAA ATTGTGTCAA AGTGAATAAT TTTTAAATGA GATTATAAGA GCATAATCAA
 ATTGAATTTT CCTTAGGATA CCAGAGAATC ATTTCCTCT CAGGTAAAG ANTTTTCTTT TINGTAGTCC AGAGCTATAC
 ATGATTAAGA AANTGTTTCA NCCAGGAAGA TGACATCTCT GCTAACCTAA TCGATTATCA TGG

SEQ ID NO:944: (Length of Sequence = 327 Nucleotides)

CCAGGCACTC AGGCTGGCTG TCCTTTNNT CCTCTGCCC ACCCATCCA CTCGAGCAT CAATGCAGCC GGCCAGTTGC
 AGGCAACCAG GCAGCACCTT GGCTGCCAG GCAGGCTAAG AGGCCCCAC CCACTCCCC CTCTTTGCC AGTGGAAAAG
 CTGCGGTAG GCATAGCTTT CCCAGCCTTC CTGCTTCAN AGGCAGGAGC ATGGCACTCT GGGAGTTGTA GTGCTCATAA
 CACTCAGGCG ATCCCTTGTG CAAATAACTG GAGGAGAGGA CTATGGTATT GGGGAAGAGA AATTNAGGAA TAAGCAAGGA
 GTTGGCT

SEQ ID NO:945: (Length of Sequence = 222 Nucleotides)

CTTAACAAT AAATACACCT GAGTAGTTT TCCAAACCTT TCCTCTGAT TAAATGCCCT TAAAACTTAA ATCTCTTGT
 ATCTTCAGTT GTGATCTAGT CCAAGTGA AATTACGTTT AGCTTTAAAA CCATGAATTT AAAGCTCAAG CCTGTAGCTG
 GCTGCCTAGG CANTTTATGA TTAGTTTCAC AGAATAGCAC CCACTGGCTA CACAGGNCCC AG

SEQ ID NO:946: (Length of Sequence = 286 Nucleotides)

GCCTCTCTA CCCCCTCATC TAGGTATGTA TATAGCTCAT TTATTAGGG GTGATGTAA AAAATTGAAT GCCCTTAATG
 GCAAGGGAAC CAACCAATCA ATGTGGATGC CACAACCTTT TCCCTGTGTG ACTGTTGTA TGGTATGGA AGTATTTTTT
 TTTTCTCCCA GCTTTTATTT CAGTTCAAG GGATACATAT GCAGGTTTGT NACATGGGTA AATTGCATAT TGTAGGGGTT
 TAGTATACAG GTTATTTTAT CACCAGGNA ATAAGCGTAG TACCTG

SEQ ID NO:947: (Length of Sequence = 335 Nucleotides)

GGAGGTGCAT TTNCTCCCC TTTGAAAGAT TTATGTAGAT TCCTAAAAGA AAATTCAGAA TATGGAGTAG CTCTGANTG
GGGAGATGTT GTTAAGCAAT CTGGATTTCT TCCAGAAAGC ATGTATGANC GTATTCTCAC TGGTCCCGTT GTGAGAGAGG
AAGTAAGCAG GCGGGGGAGA CGGCCTAAAA GTGGAATTGC AAAGGNCACA GCAGCAGCAG CTCTGCAATC TGCCACCACT
GTTTCAGGCA ATCCTTTTGT TTAAGCCAAT GGACCTACTT CCAGGGNGTG GENTCTCACA AACTTNTTTC AGGGCCTTAC
AACAAAAACC TACAA

SEQ ID NO:948: (Length of Sequence = 216 Nucleotides)

GGATGTAAGC TCCCAGACAG ACATCTCGGG AAGCTTCGGC ATCAACAGCA ACANTCAGTT GGCAGAGAAG GTCAGATTGC
NCCTTCNATA TGAAGAGGCT AAGAGAAGGT TCGCCAACCT GAAGATCCAG CTGGCCAAGC TTGACAGTNA GGCCTGGCCT
GGGGTGCTGG ACTCANAGAG GGACCGGNTG ATCCTTATCA ACGAGAAGGA GGAGCT

SEQ ID NO:949: (Length of Sequence = 369 Nucleotides)

CCCTTCTCA AAAGATAAAA ATCTCTGGCA GAAGAAATAG TTACCTGCTG CCATCCATCA GTACTGCAAT TACCATGACT
CTAAGTGACC TTCTTGCCCA ATGTTTAATG CACAATGGAC CGTGCCCGAG GAGACCTGGG CATINTCTGT TGCTTTGTTC
TACAAATGATC CCTTCTGTTT TAGCAGCGTG ANTCACTGAT GGTCACTACT TCTGAGGACT GTACGCATTT TCACCTATA
TCCACCTGTA CCAGAAAACA TGGACATAAT TTAAAGTTTA TTCTACTTA ATAGAGTGAT ATTCCAACCT GTGTGGGAAA
ATAACCATN GTCACTCTTT AAAGGAATGG TATTTAACAT TTATTTATA

SEQ ID NO:950: (Length of Sequence = 288 Nucleotides)

AATGGTGAAA TAGAAGTCCA ATTACCTGGG GAACTTCAT CTTAACCCCTC TGAATTTC AGTCTAACCT AAATATTGAT
ACTACACCTG CAGCAGCATT TAGTTTAGCA TGTAGTGAAA AAGTAAGTCT AAAAAATATT TNCATAATCT TTGGTTCTTA
AAATGTGTTT AAAAGAGATG CAGTGACATA TGCTGGAGT TTGCTTATGG CCAATAGGTT AATGCTTCTA GCCTCTATGC
TTAATGCAAA TTTTAATTAT GTGAATATGC AATTTTCACT TATATTTG

SEQ ID NO:951: (Length of Sequence = 302 Nucleotides)

TGTACAGATG TTACAAGAAC GATTCCGGGA GTTNNCCGA NACACCGGA ACAITGGGCA GGAGCGCGTG GACACGGTCA
ATCACTGGC AGATGAGCTC ATCAACTCTG GACATTGAGA TGCCGCCACC ATCGCTGAAT GGAAGGATGG CCTCAATGAA
GCCTGGGCCG ACCTCTGGN GCTCAITGAC ACAAGAACAC AGATTCTTGC CGCTTCCTAT GAACTGCACA AGTTTACCA
CGATGCCAAG GAGATCTTTG GCGGTATACA GGNCAACAC AAGAACTNC CTTGAGGAGC TT

SEQ ID NO:952: (Length of Sequence = 302 Nucleotides)

TTTTTTTNT CCACTTCACA GTTGATGCCA ACCAGCCTG CATCACAGAG ACATTATAT CCACTGAGAC CTCCAGTACA
GTTTCCATGG ATGCAGGGAT TGCNCAGGCA TTGTTTACC TGNNAGTAGC AGCTGGGGTG ATGGGGTCCC TCGGGGCATA
TACAGCGGAA ACCATTGACA CCGTTGATAC ATGNGCACC CTTGCGACAG GGATTGNGG CACACTCATC AATGTCAATG
TTACATCTCT GGCTGTGAA ATCTGGTGA GCAGACACAA CTGTAGCGAT TAATTGCCAT CC

SEQ ID NO:953: (Length of Sequence = 301 Nucleotides)

GAAAATNAAC TTTGTTTGAA AAGTTAGTAT GGGTTAGAAA TGGGAAGAAA ATCTAAAATG TAAGAGTAAA AGCAAGGCCT
TCATGGCATT CTCPTTAAAT ATGGGCTPIN CTGTGTAGT TAACATCTGA TAATATGACC CCCCAATCTA TTAATATTTA
TTATACTCAT AAAATTACAG AAAAAACCTA AGAAAGGTA TGTATTGAAG TGAATGAAT AAATGCAAAA AATGTAGTAC

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TTATAACATT TTGAAGAAAA TCTTTAAAAA TMTTGTTTA CACAGAAAAT AATCTTAGAA A

SEQ ID NO:954: (Length of Sequence = 217 Nucleotides)

AGAGCTTAAA AATAGTGAAG TCTTTATAAG TAATTTTTAA AAATTTAAAC TAGGACCATA AATTTCTAAA CTATGAGATA
AATGANCAAG AAAACAAACA GGTGTTTAGG AAAAGGTATG TATATGGTCA ATGAAATAAA TACAACTGTA TTTTAAATGA
GANITACAT ATTTTNNTTT AACAAAAGCA GCATGTAACA CACAATGTAT TATATGT

SEQ ID NO:955: (Length of Sequence = 260 Nucleotides)

TATTTGATAG AATTTTCTAG TGAAACCATC CTGACTTGGG GTTTTATTTT GGAGGAATTT TAAGTTATTA ATTCCGTCTC
CTTAATAGTG ATAGGACTAT TCAGATTACC TTATTTTATA TTTGGTGAGT TTTGGTAGCT TGTGTTTCTC AAGGAAGTGA
TCCATTTTAT CTAAGTTGCC AAATTTATGT GGTATAATA ATTTGTAGTA TTCCNGTATT ATCCNITTGA TGTCTGTAGG
GTCTCTAGTG ATATCCTATG

SEQ ID NO:956: (Length of Sequence = 216 Nucleotides)

CCCTATTAAA TCATTAGCA TTGCATGCAA TACTTTTINCT GTGAAAATTA TTAACCTTCT GGTATATAAA ATTATTTCTA
GTATGTTTA AATATTTCCN CTGGGATATT ATCATCTTAG ATCTGTAAAG TGGTACTAAA ATAGTTAAAA ATTATTTNTA
AGATATACAC AAACAGAAAA ATATAAAANC AAATGTATCT TATACATAGT ACTTGG

SEQ ID NO:957: (Length of Sequence = 353 Nucleotides)

TATGTACCAG GTGTGGAGCC TAGAACAGAC ACCAGTCAGA AGTGCAGATA AGGTCTGACT TTCCAGCATA GCCAGGGGAC
TTGGCTGACT CCACATGTCC CCAGGCCTTA CCTAGCTGTA AAGCAGGCAG GTTGTGAAGT CATAGTGGCA GTTTATGAAA
TATTTAGGGG ACCTAATAAT CTTTAAATTG TATAACATTT CTGCATAAA TTTCCTTTCA TGAATCCTTT CATGACTTAG
ACCATCTATG ACATGCTTGG ACTTTCTGAC TTGTCTAAC CACCCCTCTC TTAAACAAC CAGTCTTTTT ACTTTAGGAC
AAGAATTTAC CATACAAGAT TCTTTTGTAT AAA

SEQ ID NO:958: (Length of Sequence = 410 Nucleotides)

AAGGAAATGA ATTTGATAGC AGATTGTTAG AGATTAAATTA CCTATCATAT GCCAAAGCCA CTTCCTACAT GTCAGTGCTA
AGGAATCCCC TAGAGATGGA ATTCCTAGGT TCAACTGAAA APTAATTGTA ATTAATATAA TAGGTTAATT CATGTAAATT
ATTTTAAAGC CTTTGGCAA TGAGTTAATT CCACAAGATC CACATTGCTT GAAGTGTAC AGAGAACACT TGATGAGAAT
GTNCTAGTAA TAAACCTTAA CCTCTGGGG AAAAAATCCT ACTGTCTTTC CTCTGGCTT CGTTTCTTCT GGAACATATT
TNGGTGGCAT TTGGATACTT GGAGGACAAA GGGATCCCTA CAAGGTGNT GCATAACAT GCGTGGGCC AGATGGACTG
TGCTCAITGG

SEQ ID NO:959: (Length of Sequence = 197 Nucleotides)

GCCCGGCGAC CGTAGCATCT TCTGGACCAC AAAATAGAAC APTGCCAGGC AAGGCAGGC ATTTGGGGAA TTTNAGAGAA
AGCAGGATGA GTGATGGAAT TGGGAGGTG GCACAAGATG TTAAACAGCA TATCTTAGTC CTCATCTAGG GTATAAAACA
GGACCCATGG ACTCTAGCAT CCTGGAATGA CAGAGGG

SEQ ID NO:960: (Length of Sequence = 345 Nucleotides)

AATAAACTTC TGTGTTTTA AGCCACCTAG TTGTGTCAC TTGTATGGC AGCCTTTGGA AACCAACACA CCCGCACATG
GCGTGTTTAA CGCAGGCTGA TACAACCTTA AGAAAGGAAT GGNGTGGTC ATCAGCAATC TCCAATACCT ACAGCAAATG

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GGAAGACAGG GAAGGACCAG AGGIGTAGGT AAAGCAAAAA GCCACAGGTC ATTAGGAAGT GATGCTCCAA CTGGGCATGG
 AAAAGGAGTT TGGAGTTAGG AACACGACAG ATCTGTCTGG ACAAGGNTCC AGATCTCTCC TAGGGGGAAG NAGGGGCAAC
 TTAGGACAGT TTTGTGTCT GTGGG

SEQ ID NO:961: (Length of Sequence = 327 Nucleotides)

GCTGAAGAGG AACATGTGTC CTCGGCCACT TCAATCACTG AGTGTGACAA ACTTCTTCC TTGCCACAT CAGTGGGTGA
 GGACCAATCT NTGGCCTCAC TTACAGCTCC CCAGACAGAG GAGACAGGCA AGAGCTCCCT GCTGCTTGAC ACAGTCACAA
 GCATCCCTTC CTCCGTA CTGAGCTACG AGGGCTTGGA CTATGTGCCA TCAGCTGGTA CCATCTCACC CACCTCCTCA
 CTGGAAGAAG ACAAGGCTT CAAATCACCA CCTGTGAGG ACTTCTCTGT GACTTGGGAG TCAGAGAAGA GAGGAGAGAT
 CATAGGG

SEQ ID NO:962: (Length of Sequence = 369 Nucleotides)

AATTTAGATT TGCAAGTTTT CTACATTTTC AAAAAACAAA AACAAAAAAA CAAAAACAA ACAACAAGAA ACGTAGACTA
 GTTGGGCTCT GTCATGCCCC GGACATGAAT CAGCCCTCA TCCAGCTTCT CTGACCATTG GTCACTTAGT GGTCTTCTTG
 GTTTTCAGAT AGCAAGAAGG GTGATTACAG CACGATATTT TGACAGAGAC CACATTCACA TAGCTTTTAT TAGTTATTGG
 TTGCTGTAA TCTCTCACTG TNCCTTGTA AGCTTTATCA TGGTATCTAC GTAGAGGGAA AAAGCCACGG TATAGATATG
 TAGGGTTCCA TACTATCCAG TCTCAGGGCA TCCACTGAGG GGTCTTCTG

SEQ ID NO:963: (Length of Sequence = 278 Nucleotides)

CTCAAACACC CGAGGCCGGG AGGAAAGAGA AGCCGTGCT TCAGAGCAGA CACTCCTTAG ATGGCTCCAA ACTTACAGAG
 AAAGTGGAAA CTGCTCAGCC GCTGTGGATA ACGTTAGCAC TGCAAAAGCA AAAGGGGTTT CGGGAGCAGC AGGCGACGG
 GGAGGAGAGA AAGCAAGCCA GAGAGGCCAA ACAGGCAGAA AAGCTCTCCA AAGAAAATTN GAGATCTCCG ACTCGGCTCC
 CCCAGCGCG CTGGTAAAAG AAGTCACCA GAGGTTTT

SEQ ID NO:964: (Length of Sequence = 349 Nucleotides)

ACACTCTCA TATAGACAGT CGTGAAGAAC AAGGCTGAGG GATTITINAAG TAAACCCATT TTCAGGATGA CTACAATCCT
 TCCACTCTA GAAACCTTAG AAGTACAAGA AATAGCTCTA CTACGGGTAA CTGATTTAAC AATTGCCAA ACACCCCTTC
 CACTACCCAA GCCCGTGGCC CTCAGAGAGA ACCGGGATGG ATTGCCATCT GGGTTCAGAG GCAATATGAG GAGGTTGGGG
 GGATGGCAGG GGCATCCTCA GGGTTGGGG GCAGGCCAAG GGGATGAGAT GGCAAAGGAC AGCTTTNGGA ATCAGATAGA
 CGATCCAGCG TGCCTTCTA CACTTGCAT

SEQ ID NO:965: (Length of Sequence = 361 Nucleotides)

AGCAGCAAGC CAGACGTGAC TGTCAGGAAC AAGCTAAAAT AGCTGTGGAA GCTCAGAATA AGTATGAGAG AGANTTGATG
 CTGCATGCTG CTGATGTGA AGCTCTACAA GCTGCGAAGG AGCAGGTTTC AAAAATGGCA TCAGTCCGTC AGCATTTGGA
 AGAAACAACA CAGAAAGCAG AATCACAGTT GTTGGAGTGT AAAGCATCTT GGGAGGAAAG AGAGAGAATG TTAAGGATG
 AAGTTTCCAA ATGTGTATGT CGCTGTGAAG ATCTGGAGAA ACAAAACAGA TTACTTCATG ATCAGATCGA AAAATTAAGT
 GACAAGGTG TTGCCTCTGT GAAGGAAGT GTACAAGGTC C

SEQ ID NO:966: (Length of Sequence = 163 Nucleotides)

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CTGCCCTTCTG GGTCAAGCG ATTCTNATGC TTCAGCCTCC CAAGTAGCTG GGATTACAGG CATGTGCCAC CATGCCCACT
TAAITTTTGT ATTTTNAGTG GAGATGGGGT TTCGCCCTGT TGACCAGATT GGTCTTGAAC TCCTGGCCTC AAGTGATCCA
CCT

SEQ ID NO:967: (Length of Sequence = 365 Nucleotides)

GTGTCAGTAA TAIGTTGTAC ATATTATINC ATCACCAGG TGTTAAGCCC AGTNCCTAAT AGTTACCTTT NCTGCTCCTC
TCCCTCCTCT CACCCCCCTG CTTCAGTCT ACCCCNGTGT TTTCTTCTTT GTGTTCTTAA GINTTATCA TTTAGCTCCC
ACTGTAAAGT GAGAACATGC AGTATTTGGT TTTCIGTTC TTTGTAGTT TACTAAGGAT AATAGCCTCC AGCTCCATCC
ATGTTCCAC AAAAGTCATG ATCTCATCT TTTTATGGC TGCATAGTAT TCTGTGGTGT ATATGTACCA CATTTCCTTT
ATCCAATCTG TCATTGATGG GGCATTTAGG GTTGATTCCC TGTC

SEQ ID NO:968: (Length of Sequence = 390 Nucleotides)

GTGTATAGTA ATTTAATAGT AATTAAATGT AGAGTATTTG TAAAAACAAG GAGAGGAAAA AGAACAATTC ATATTTGAGA
ACTCCTAATA ATCTCTAGA GCAGAGTCA AAGAAGCAGT GGTAAAAATA AAGCCAAAGA GATATAGGGG CTAGTCTTAG
AACCAGGACT TCCTATAGAA CCAGCTTCT ATAGAATCTG AACTTTATCT GAAACTCTTT CACAGATCTC CTCCACCTTA
ACTTCCACAA AATAAGAAAT TTGGATTTG AAGGCAAATT TGTATATTTT AAGGAGCAGG ACAATCTCAG CTGTATCTGG
GTTTGAGAT ATCCAACAAA TCCTACCCAA ATCATTCTC CAGCTGCAGA CTTGGAATTT CAGATCCAGG

SEQ ID NO:969: (Length of Sequence = 340 Nucleotides)

CAGACAGAAA AAGATTGAA GAGACGGTC AGGAAGTAGC GGAATTACTG GAGGAAGAAA AACTAAGTTG TGTGCCAGIN
CTCATCTTTG CTAATAAGCA GGATTGCTC ACAGCAGCCC CTGCCTCTGA AATTGCAGAA GGACTGAACC TGCAATCCAT
CCGGACCGA GTCTGGCAGA TCCAGTCTG CTCAGCTCTC ACAGGAGAGG GCGTTCAGGA TGGCATGAAC TGGGTCTGCA
AAATGTCAA TGCAAGANG AAATAAATC TAGACGAATG GAGATGCAGG AGCTTCGGGA GCGGAATTG GGCCTTAAAA
ACACTAATTT GCTGCTTTCT

SEQ ID NO:970: (Length of Sequence = 372 Nucleotides)

TTTTAAGATG GGAATCTACG GTTACCCAGG CTGGAGTGA GTAGTGGTC ATAGCTCACT GTGGCCTCAA ACTCCTGAAC
TCAAACTATC CTCTGCCCTC AGCTCCCAA ATAGCTGGGA CTGCAGGCAC ATGCCACCAT GCCTGGCTAA TTTTAAAT
ATTTGTAGA GATGGGTCT CACTTTGTG CACAGGCTGT TTGCTTGATT CTTAAGAAGC TATAGGGATC CAGCTGTACA
GAGCTTCTG CAGTCTTTG TAATAGAAT AGTTGTTAA ATTGTACTTA TTACATGAGG CATCAAAGAC CTTGGAATAA
AGCTATINCC TCACATATCT GGGCAATTAT TTGGACTTA CTATGGTTAC CG

SEQ ID NO:971: (Length of Sequence = 337 Nucleotides)

GACTATAGAG AACGCTGAAG TTTTGAATAA AAGACTCTAG GTGAGCTTC ATCAGTGCCT GCTTTGNTC CAAGATGTAA
TGAGATCTN CTTTACGTC AACAAATGCC GCAAATNCTT TCACCTGAGT GGAGCTCGGA GCACCCAGTC TCTCTGCATA
TAACCAAAAC AAATTTGAAT CCAAAAGGTA GATGTTGAGA GTCTTGTGG TTCTGCAGCT CAGGCTGTG AAGTTTGTGC
TAGTCATGTC CACTTCGGA AAGAGGATAC CTGINTCCT CAATGTGAGG GAACGGGAGC TTNGGGGCAT CAACCTCACA
TTTTCTCTC AAGGGA

SEQ ID NO:972: (Length of Sequence = 396 Nucleotides)

TTCTTTACA TCAATATCC TCAATGGAAG AGGGATATT GCACACAAAT ATCATAAAG CACTACATAT TACTTCACT
GGAACTAAT TTNTACATT AGATATGACT GGATAGGATA GAAGTGATGC AGGATTATAA GACATAATAC CATACACAGC

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TGCAGACTGA CACAAACACC ATTCAGAACA AGAGAGAGGA GTGTGAAGTG CTTCCTCAGCT GEGCTCAAGA CCACCTCTTT
CCAGTGCTGG AAAGAGGGGC TGCATGCAGT GTAGGAAAAG CGTGTCTCTG AACTGCCACA GGGTGTCTC GAAAGGGCAG
CCCGGTCTTG ATGCCACTTC TCCATGGCTC CTGTTTTTGG GGGAGCTCCA AACAAAGTGA GAGAAGCTGC CTATTT

SEQ ID NO:973: (Length of Sequence = 401 Nucleotides)

TTCTCAAAC TCCAGTCTC TTCTGGGCC AAGATCTGGT CCACCACTGC CGTGGCCTCC TTCCCCTGGC GGATGTC TC
CCGCTCCTGA GCAGAGAAAC TTTTCTTCCC AGCAACTTCT TCATCTGATG GGAGGAGGA ACTGAATAGC TTCCG TGA
GGGAGATAAG AAAGAAGAGT GTGGTGTGAA CAGGGAGCTT TGAGCTGTGG AGTTGGGCTG GGCATGGAAA ATNCGGTGGA
GAGTAGCAAG GAATGAGGGG CTTCAGAGAA CTCINGGATC AGCCCTCCCA CACTCACTGC CCTTTAAGGT ATCTTTGGGG
AAAAA AGGG GCTTCTATGA TGAGTCTGGC AGCTNCCAC ACTGCATTCT CCTCTGCAT TTTTTTACCA TGCACCGGG
C

SEQ ID NO:974: (Length of Sequence = 311 Nucleotides)

TTTACAAATG AACCACTGAG CACCTCAGTA CTTAGCTCAT ACCTCATACC TTAGTTCCTT AGTACTTAGC CTGTGCCAT
CTTGAATGAG ATGGAGTGAA GTGAAGCTCG AAGGAGTGAC AGAGACATAG TCCTTGCTCT CAAGGGGTCT TTAGCCTGGT
CTGGGGGACA AGATTTCTCT ATCTACCTCT TGAAAGGTGG CAGGACAACT CCACACTGGA GTGTTCTCAC CAGCAGATAG
GTGCTGCGGG AGTGTGGCC CACATTCTTT ATAGCCACAG GCITTCGTGG GACTTNCCT GGGTCTCTC CCTATTGGC
TGGGTGGACC ATAAGCGCA AGTGAATGTG GCAAACCTCA ATTCACAATT AA

SEQ ID NO:975: (Length of Sequence = 340 Nucleotides)

GACAACAGAA AAAGAAGTGG ACAGCTACCC TAGATTCTAG CTCACACATA ATTCAGCCAG ATAATCATCA TTTAAATAAT
ACCCCTTGAA ATTTTTCAGA CTTTTCACAG CTCTAAAAAC ACAACATCAG ACATAACATC ACACATTGT TCCAAAGGAC
TAAAAATCAA AAGCAATTGC AAAGTATTGG GAATCACTTT TATGGCTTTC CTAAGGGACA GTCCCCATCT TTCCAAGGAG
TGTTTTTAAA GAAGCACTAA CTCTGGTAGG TTATCAAACT ATTTTTCAT TCTAAATAAA TAAAGACTA ACTGAAGGTC
TCAGGTGCAC ACTTATTTT

SEQ ID NO:976: (Length of Sequence = 343 Nucleotides)

CTGTCCCTA AATATTATTA AAATTTTAAA AATTAGACAT TTGGTCTAAA TTAGACAGGT AAGATACTAC TGTCCCTACT
AGATGCTTTA AAGTCATAAA CTGCTCTAT GGCCTTINAT AATTGTNCAA CTGCTTGCT TTAGAGCCAT TGGATTCTAG
GTAAGGCCTA GAGACATTG GAGTTAGCCA TGTCCCTAG CTATGCTAGA AAGAGTCCGA CATTTATCTGT GGTTCGTGCC
TGTATCTTAC ACTCTACACC TGATACATAA TTAAATTTAC TTACACTAAA AATAAAAATG GATGCATTTT TTAGGTAGGA
AGGGTATGGG AAATTATAGG TTT

SEQ ID NO:977: (Length of Sequence = 265 Nucleotides)

ATCTTTGTAA TATCAGTGCC TAGACTAAGC CTGGGTATA ATAGGCACTC AGAGATTGA AGAATAAATG ACTAAATGAC
TGTATCAAAT ACTTGCCCAT TGTGTCTGT TTCTGANTG TACAAGGCCA TCATGATAAT TGATGATCTT AATAATGTGA
GAATATGATT CINTTACCTT AGTAAGAGAG CCATCAGTTT ATTGGATGAT AGTTATATGG AAAAAGAAGA AATGCTACTG
TGATAAATAT TTATAATTTT AAACA

SEQ ID NO:978: (Length of Sequence = 285 Nucleotides)

ATGGTGGGCT GCCCTGGCCG AGGTGGCCAA GATGGCACTT GTTCTCTGCC TCANAAGAAA AGGCACTGAC GCACTGACCC
TTTNAGGTTG TTTGGGTGT GTTCAGTGCC CTCCTGCTG AGGTCAAGT GTGTTTTCAA GTCAACTCA GCAGACTCA

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TTTAACCATT TTTTNTTCCC TTAAAAA AAAACCCAAA AAACCAAATC CCAATAAATA TGTTATTTT NTCCATCACA
ATATTGCTTT AGAAAAATAA GAGCCGTCAA GCAGCAATTT TTCCT

SEQ ID NO:979: (Length of Sequence = 316 Nucleotides)

GTGCGINCAC ACTCTCCTCC TGCTCCCAA ACTCCTCATC ATTGAAGCCG AAGTGGTCAA TGAAGGCAGA GGTCATGCGC
TGCATCTGGA AGTCCATGAA GGCTGTCTGC AGCACAGCCT CTCAGGGAA GTTGAAGTCC TTGAGCCGGT CGTCTCATC
GTCACTGGAG GAGTGTAGGT GGTGGGTGTT CACCAGGTCC ACCATGTTCT TCTTGTTGGT CTCGCCAGG GGCCCCGATA
CGAAGGCTC CCACTGCTCC TGCTGCTCC TGGGCAGCTC CTTGAGCAGC TTGCGCAGC TGCTCTGCAA TTGGGG

SEQ ID NO:980: (Length of Sequence = 386 Nucleotides)

AAACTGGCTT GCCTTCATCA TCTCTGCAGG GNTCAGTAAA GATTAGAAAT GGATTATTTA CCTTGTTATA CAAATACACC
TCCTCCCTAC ACCCAAGANT TGAGAGGAAG ATGAGCTGTT CCTGTGTAA CGCTGANTC AATCCCAITA TCTGCAITTC
TGTTGTGGT TAGCGCTCCA GCAGCCTAAG GCGGGAGCTG GAAATGACAG CCTTGGAGAC GAGGAAGGCT CCAGGGAGGA
CGGAGAGGAA CACCTGCTGA AGAATAAGAC GGGCGGCACC AGCCGGGCTG ATTTTGGGGA ACGGAAGGTA ACAGAGGGTG
ATGCTTCTAA TCGCTTTTAC AAGGTCTTGG AAAGACGGGA TNGCCTTAAC CAACTTGGGG TTTCIT

SEQ ID NO:981: (Length of Sequence = 322 Nucleotides)

GTTTATTAAT ATTAAACAT ATTAAATAA TACATGTCNA TAATGAAAT GAAACATTAC AAATAAATAC ACAGGAAGG
CAGTATTCCT CTCCAGTTC CACTCTTGA ATAACCAGTT AACAAGATGA TGAACATCTT TCCATGATGT TCTCCAAGAT
TCATATTATT TTGCAATCA TACAATGCA TATACAGCTC AGGTGCGGTG GCTCAGCAA GTAAATCCCA GCATTTTGGG
AGGCTGAGGC GGGTGGTTCA CTTGAGATCA AGAGTTCGAG GCCAGCTGA CCAACATGAA GAAACCTGT CTCTTACTAA
AA

SEQ ID NO:982: (Length of Sequence = 305 Nucleotides)

CCCAAGGCTG TAGTTCAGCA TCAACAGGC AGGGAGCTTG GCAGGGCAAG GGCAGAGCTG GAGATCATGC CCAGTNTCC
AGGTGCCCTC CCTCCCAATC AGCCTGGGG GCACAGGACA GGGATGGAGA AGGGCTCTC TCCATGGCTT GGGTAACATG
CCAAAGGCAG GTCATAGGC AGACTCAGTG GGGGTGGGG CCTGGCTAAC AAGCAATGGA GAGAACGGGG GCCATCCAGA
GAGGTGGCA GAAGAGAGCC CTTGGGTCAA GAGAAACTT TGGGGAAGAC AAGACACGGG AGAAG

SEQ ID NO:983: (Length of Sequence = 399 Nucleotides)

AGCCCTTGTT TTGTTTAA AAGCTGTCTT GTTACTGCTT AAAGTCTCCA AACTGTTATT GAGAACACTG ACCAGAGCCC
TGTCATAGA CCAGTGTCTT TCCAAGTGA GATTGCAACT CCTTGCAGA GTAGTTGTG GAGCCATTIN AGCTGACTAC
TCACCAGCTT TCTTCAAAT GTAAATGGAA TAGGATAGAA AAATAATGAA AAATTGTAAA GTGAATTGGA TGCAAAAGG
GTAAATATTG TNGTTCAGA CTTTTTGGG TGAGTGTGCA TGTTTCACA TACTGGNTCA CATATAACA TGTATTGCTC
ATTATGGGTT GTGTTCAGAA AAAATTCAAG AAACGCTGTC TCAGACTGTC CCAAGTTGT ATTGCTTAT AATGGGACT

SEQ ID NO:984: (Length of Sequence = 408 Nucleotides)

GTTGTATGAG GTATCAATGA AATACATTTA AGATGTACAT TGGTTGTCTT CAGAAAGCG AGACAAGTCA AAGCGGGGAC
TTCCAGGCTA TAGGTAAAT TATACATTTC CTGGTTAAGA TTGGTTGAGT TTGTCTAAG ACCTGGGATC AACAGAGAGG
AAATGTTGG NTTAAGACAA GGATTGTGA GACCAAGTT TACTACGCA GAGGAAGCTC TTAGCTAGCA GGCATAAGAC
AGAAGAGGCT GTAAATGTT TTCTTATGAG ACTGAAAAGG GTGCTGACT CTTAATTGAT TATCTCCTGG NTCTGGAAAG

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AAAAAAAAA GGGAAATGGCC AGGTGCGGTG GCTCAGGACG GGTCGTGGG CTCACACCTG TAATCTTTCT TAAAACGTTA
TGAAGTTC

SEQ ID NO:985: (Length of Sequence = 439 Nucleotides)

TGGTATACIT TTGINTTTT TTCTACTTGT TAGTTGTATT AGTATCAAAT GGCATAATAA AGTTACTTTG TTTGCCATTT
CCCACTCATC TGAAATCAC AAAAAGCATT TATTTCTAAG ATTTATATCC ACTGACCTTT TCCCCAAGT TATTTTCCTG
TTACTTGTAT TTCACTTTG CCTTATTTT TTTAATATTT GTATTAGAAT TAGCTTGCTC TTGTTTCCTT CACGGCAAAT
GTGTTACATT GCCCCTGGG TGGCTTCTGC GGATGCCCT ACCCACCCT CGTCTGGAGC AGAGAAGTCC TGTTAGCCTA
GCAGCATAGT GGCTGCTGTC AGTGGGAGGA GTTGCTCTC TCTAGCATGG TCTGTGATGT CATCTGGACA TAATTAATTA
GACTAATCCG AATAGAGGAC CAAGACAGCC CTGCTGCG

SEQ ID NO:986: (Length of Sequence = 286 Nucleotides)

CGCGACGAA CATGGAGAT CCAGCTTG GAGCGCAAGT CCTCTGCGG GAAGAAGTGT CGCGCTCCA GGAGGAAGTT
CACCTTCTCC GGCAGATC AGATGTTG GCGAAGGACC TGGAGGAGTC GCAGGGCGGC AAGTCTCTCN AGGTCTCTC
GGCCACCGAG CTCAGGCT CTGGCCCA GAAGGAGCAG GAGCTAGCCA GAGCCAAAGA AGCCTTNCAG GCCATGAAAG
CTGATCGGAA GCGCTTAT CGAGAAGA CAGACCTGGT GAGCCA

SEQ ID NO:987: (Length of Sequence = 381 Nucleotides)

TCCAAAGGTT TTCACTC TGGATAA ACAAA TG GTACATCTAC ACAATGGAAT TTGGGA GATGAAACAG
AATGINTAG GGCAC CATGTAT GGTG G GTCTGCCTCC CA TTTCCA CAGGCA G GTGTCT
GGGTGAGGG CTGGGAG GGCAGGAG CATC AAC AAGGTGGAA GCT GAAGA CGACCAG TCCACAGGT
GINTCACATG GTACAACCA GAGACTTGGC GTGCTAGAA CCAAGAAAC ACTCAGGACA CACGACAT CTGCAGGGAA
CCTGGGGGT GGTGAGGAAA GTGCTGACG GGTGTTGGG GGGAGACTTG GAGGCCCTC T

SEQ ID NO:988: (Length of Sequence = 381 Nucleotides)

GAATTAATAC CAATAGAAGG GCAATGCTTT TAGATTAAAA TGAAGGTGAC TTAAACAGCT TAAAGTTTAG TTTAAAAGTT
GTAGGTGATT AAAATAATTT GAAGGCGATC TTTTAAAAAG AGATTAAACC GAAGTGANTT AAAAGACCTT GAAATCCATG
ACGCAGGGAG AATTGCGTCA TTTAAAGCCT AGTTAACGCA TTTCCTAAAC GCAGACGAAA ATGGAAAGAT TAATTGGGAG
TGGTAGGATG AAACAATTTG GAGAAGATAG AAGTTTGAAG TGGAAAACG GAAGACAGAA GTACGGGANG GCCTCTTCA
TGTTTACAAT TTTAATTAAT TTTTATTATT TTAGGNTAA TTTCTTACCA AACATTACCC A

SEQ ID NO:989: (Length of Sequence = 432 Nucleotides)

GTCTTGGGCT CTGCAACCT CTGCTCTCTG GGTTCAAGCG ATTCCTCTGC CTAGTACC CAAGTAGCTA AGACT 3
CATGCGCTG CTGCTGGC TAATATATAT ATATATTTTT NGTAGTTTAA GTAGAGCGG GGTTCACCA CGTT 3
GCTGGTCTCG AACTCCAGAC CTCAAATGAT CTGCCCGCT TGGCTTCCA AAGTCTGGG ATTACAGGCA TTAGCCACTG
TGCTTGGCCA ACAATATATA TTAATAAGC ACACATACAA CAAAGTAGG TGTGGTAAG CTACAAAAA TGTGACCAGT
AGCTTGCTGA AACCTAAGTT TTTATTTGTT CATGGAAGTT TCTAGACCGT AACTACACTG AATAATGAGA ATCTGCTGTA
ATCTTTTITA GGTGCTGTAG ATGAGCCATT GG

SEQ ID NO:990: (Length of Sequence = 421 Nucleotides)

GGCAGCCCTA CTTTINCTTC TCATTAGCAG TTTCAGTCCA CAGCTGGGT ATTAAATTG TNAGTCATTG AAATTAATCC
CTGACTGAAT TGGAAAGGAA TTGTATTTGC AGTATTGGA TTTATTTATT TTNCAGGTAT GGAATCTGG TGATTTTGAA

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AACATGAATG ATACCATTTT GCAGCAGCAT TGTAGATTG TAGTATTTTA GATTGGTATC ACAGTGCACC TGAAAAGTAA
GTTTCATTTT ACTTTTTTNA TTGTTGTGA GACGGAGCTC ACTTTTGTCA CCCAGGCTGG AGTGCAGTGG TGTGATCTTG
GCTCATGGCA GCCTCTGCCT CGCTGGGTTC AAGCGATTCT CCTGCTCAG CCTCCGAGT AGCTAGGACT ATAGATGCTC
GCCACCATGC CCAGCTAATT T

SEQ ID NO:991: (Length of Sequence = 351 Nucleotides)

CCTCACTCCC CGCGCTGGCA CCTCAGGTTT ACAAGAAGAA CTAGGAAATA ATGCCGGCCA CGGACCCCT GGAGAGGGGG
CCGGCTAGAA CAGCGTTCCT AAGAATCCGC GCCACAGCAG GTCCCGCAT GTTGGGGCCT TAGTGTATC GAGCTAGCCC
CAATCTCTCA CCCGATCTT AACTTCTGGT AGTCTTAA GAAGTCTCGT ATTGAACCAG CCACTTNGGC CAGGAGAGA
TAATCTCTG ATAGTIGAGG TTCTTTCCTC TCCTCTGGAG CAGATAGTGG TGTCTCTCC CCACAAAGCT CATGTTCTGC
TGAAGAAAT GGAGATGGCG CCTGGAAGG C

SEQ ID NO:992: (Length of Sequence = 406 Nucleotides)

CCAGAAAAA TGGCCACTAC TACCACITGG CTCAGAAATG CTAGTCTTTA TTTNCTGAAA TGTTTTATAT AGAAAAAATT
TAATAATAAA TAGACATTCT TATATATTTC CTACCATTT NAGATTGGGT TAAAAAGTAT GGNGACTTCC GGCCGGGTGC
GGTGATTCAA GCCTGCAATC CCAGCACTTT GGGAGGCCGA GGCAGACAGA TCATGAGGTC GGGATCTGTG GCTAACACAG
TGAAACCCCG TCTCTATTAA AANTACAAAA GGAATTCCTG CAGCCCGGGG GATCCACTAG TTCTAGAGCG GCCGCCACCG
CGGTGGAGCT CCAGCTTTTG TTCCCTTTAA GTGAGGGGTT AATTTCGAGC TTGGCGTAAA TCATGGTCAT AGCTGTTTCC
CGTGTG

SEQ ID NO:993: (Length of Sequence = 381 Nucleotides)

ATGGAAGGAC CGTCCCGGA CCCCAACGAG GCANTGGGG AGTTTGCCAA GGAAATTGAC ATCTCTGTG TCAAAATTGA
GCAGGTGATC GGAGCAGGGG AGTTTNGGA GGTCTGAGT GCCACCTGA AGCTGCCAG CAAGAGAGAG ATCTTTNIGG
CCATCAAGAC GCTCAAGTCG GGCTACACGG AGAAGCAGCG CCGGGACTTC CTGAGCGAAG CTCCATCATG GGCCAGTTCG
ACCATCCCAA CGTCATCCAC CTGGAGGGTG TGTGACCAA GAGCACACCT GTNATGATCA TCACCGAGTT CATTGAGAAT
GGCTNCTGG GACTCCCTTT CTCCCGCAA AACGATGGC AGTTTCACAG TTCATCCAGC T

SEQ ID NO:994: (Length of Sequence = 384 Nucleotides)

GTCTTCCAG TTCGGAAGGA TAAATCAAA TTCCACTTT CTGGGGTGA TGCCCAAAC CTTCACAACT CAAGTGTCT
CCAAGTGCAA ATGTCAAAT GGGAGGAGGA AAGGGTTTAA AAATTAGAGA AAAGTGTATG CACTTACGGA CTAAAAATC
CGAAAAACAT AGTAAAAAGA CAAAAAACA TAGCAATTATG CTCTGAAATC ACAACCAAAG CCAAAATAAA AGGGACATTT
TTCACCTAAA CTACCTAGAG GGATTTTTTG TTAGTTTTT CCTTTTCTT TTTTTTTTCA TTTTCCAGTT AAGTCTATG
TCITTINGTA AATTCCAATA CTTAACTGC AAGTCTGCAA TGTCTCTGA AGTCAGTGAA ATTA

SEQ ID NO:995: (Length of Sequence = 386 Nucleotides)

ATAACTTTAA CAGAGGATTG GAATAATGAG GGATTGGCAA GGAAGCAGTA AAAGGGAACA CTAAAGTATA GAATAATAGC
AAACAGAAGG AGCACCTTAC CCTAGGGCT GAGAAAGAGC ACAGGGAAGT CCTTTTNT TCTGGACAG AGATCCAGAC
GAGCTGGAGA AAGAAGTTC TATGTTACTG CATCANTGGA ACTTGTCTGA AATCCACCT CAAGGGCACT AGGAAAACCT
GTTACGGGA GCTGTGGAGG GAAATGGGT TGGCAGGAAA GCTGTGGG GCGGGTCT TCAGACTGCA GTGTATTGCA
GGAGCTTGG CACTGGGGA GCTGTGTGCA CTGCAGGATC CTGCTGAGC AGCACATCAG ATCAGG

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SEQ ID NO:996: (Length of Sequence = 307 Nucleotides)

GTGCGCCAAC TGCAAGAAGG AGGCCATCTT TTAAGTCTGT TGGAAACACCA GCTACTGTNA CTACCCCTGC CAGCAAGCCC
ACTGGCCTGA GCACATGAAG TCCTGCACCC AGTCAGCTAC TGCTCTCAG CAGGAAGCGG ATGCTGAGGT GAACACAGAA
ACACTAAATA AGTCCTCCCA GGGGAGCTCC TCGAGCACAC AATCAGCACC TTCAGAAACG GCCAGCGCCT CCAAAGAGAA
GGAGACGTCA GCTGAGAAAA GCAAGGAGAG TGGCTCGACC CTGACCTTT CTGGCTCCAG AGAGACG

SEQ ID NO:997: (Length of Sequence = 402 Nucleotides)

TCTGCACCTA ATACTGAGGG TGTGAAATCT TCCTCAGTAA TGCCAGCCCC TAGTACCACA TTAGCGCGGC AAGGCAGTCT
GGAGTCACCG TCGTCCGTTA CCGCAGCAT GGGCAGTGCT GGTGGGCTAA GCGGCANAGC AGCCCTCTCT TCAATAAACC
CTCAGACTTA ACTACAGATG TTATAAGCTT AAGTCACTCG TTGGCTCCA GCCAGCATC GGTTCACTCT TTCACATCAG
GTGGTCTCGT GTGGGCTGCC AATATGAGCA GTTCTCTG CAGGAGCAAG GATACTCCGA GCTACCACTC CATGACTAGC
CTCCACACGA GCTTCTGAGT CCATTGACCT CCCCCTCAGC CATCATGGCT CCTTTGTTT GGACTGACCA CAGGCACTCA
CG

SEQ ID NO:998: (Length of Sequence = 304 Nucleotides)

GCAGCTCTGT GATTGTGTAAG ACTCACAACC ATGTGGAGAG GCGAATCAC GCAGGAGAGC CACGCATTGG AGTACCCTGG
CTCCAGCCCC CTCCCCACC CCGTNTGAG CCAGAGAGCT ACAAGCAGGA ATCCAGTGC AGCTGCAAT NATGGCCATC
GAGGAAGTCT GTGGAGAAGA GGCTGGGGC TGTGGTCTG AGGGGGCTA GGCTCAGCAC GGGACCACCT GACGACAGCT
CCCAGCCAGT CCATGCTGTC CAGGTGGCCA TCAAGCCAGG TTCCAGGGCC CATGGGTGCT TGCT

SEQ ID NO:999: (Length of Sequence = 321 Nucleotides)

AGAATGGTTT TGGAGCTCGA NATCTTCATG GGTAGACTT GCTGGTCAGA CCCAGGAGCA CCTGTGGCTC ACACCTTCTG
TNCCCTCCT GGCTGTGCA GAATGTAAAC AGCAGACTCA TACTCAATGG GCACTACAGG CCTTATCAGA CGTTTTATAC
AAGCTGGAT TGCTTAGTAG GGAATAAGG CATTCTCTGA GGGGCTTTC CACTTAGATT GAGAATTTTA TTGAAAAGA
ATCTGGTTTA AATGGCATG TGTCCGAGG TAGCTGCTCT CCCCCTGAG AGCTGAGCCG AAATATAAGA ATAATATATT
T

SEQ ID NO:1000: (Length of Sequence = 253 Nucleotides)

CCCTAGAGGA TTTGCGTCT TTNATCTGCC AGTGACCTGA ACCACGAGA TTTTCAAGC AGGAGGGCCG ATTGGGCAAC
CACAGCTCCC GTGCTCTCTC TTTGCACTGC GCGGCTTTC CTCCGAGAAG GACTTTGAGG ACTACATTAG GTACGACAAC
TGCTGTCCA GCGTCTGTC CCGCTGGTC TTGAGCACC CCTTCAACCA CAGCAAGGAG CCGCTGCCN TGGCGGTGAG
ACGTGCGGCC GGG

SEQ ID NO:1001: (Length of Sequence = 164 Nucleotides)

AAACAGAGTA CTGGGATGTC ACTGTTGGAA AGTGCTCACA ATTTCTCATC TAAGCCGAAG TTGTCTGTC TCCTTCCTAC
CITTAACAGTT TCTCAGTCC TGAAGGCAGC TGCCAAACC CCTCTAAGCA AGCAGCACTC TTACCCACCA AAATCTATGA
CCTC

SEQ ID NO:1002: (Length of Sequence = 262 Nucleotides)

ATATCTTCCT GAGGGAAAGT GGTAGATTAA AAGAGGGCAT AGAGAGCGCA CTCATGCATT TACAACCTAG AATTTTAAAA
AAAGTTTACA TTTTGTCAAT TGTACTTCAG ATGAATTTC TTATTTAAAG AAATAAGGCC ACAGAGGTAA ACTTAAGTCT

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CCTGTTTCCC AATGCCTACC CTCCTTCTTC TCCTTTCTTC TTTCTCTTTC CTAGAGAAAT CCTGCCTTCC TTTCCCTTCC
CAGAGGCAAC TGGCATTATA AT

SEQ ID NO:1003: (Length of Sequence = 267 Nucleotides)

GGAAAGAGGA GCAGGTCTGG AGGTTTGTGG AACCCAGTCC CCTGCAGAAT CTGTAAAACC TAATAAATCA TGGTTGTGGC
CATTTCTACG GTGGTGATTG TAATTAGACG ACCCCCGGGA AGCCACAGCA CTCGGGGCCT GGAGTTCCCTC CCCCTGCCCTG
ACCTAGAAGC AGAACCGTTT TCAGCGNTCT GCCCTGTGG CTTTAAGGCT TTGTCTTAAT TTAAGGAAAA AGATCCTCCC
GGGTTTTATT TCTCTCTTTC TTGAGTG

SEQ ID NO:1004: (Length of Sequence = 277 Nucleotides)

GGCTCTTAAA CACTTTCTTC CTGAGATGTT AAGCAAAGTA ATCATCCTGT CACTAGATAG AAGCGATGAA GATAAAGAAA
AAGCAAGTNC TTTGATCAGT TTAICTAAAC AGGAAGGGAT AGCCACAAGT GACAACTTCA TGCAGGCTTTT CCTGAATGTN
TTGGACCACT GTCCCAAACCT GGAGGTGTAC ATCCCTTTGG TGAAATCCTA TTTNGCACAG TTTGCAGCTC GTGCCATCAT
TTCAGAGCTN GGTTAGCATT TCAGAACTAG CTCAACC

SEQ ID NO:1005: (Length of Sequence = 271 Nucleotides)

GTTAGGTCAT TCACACATGG TGGAGACAGG AATCTACAGA CTAGGGATCA GCCCCAAGGC TATGATCTTT GTNCTGCGCC
GCTCTACCCC TGAGCAGACG GGCCAGAGGT CCAGAGAGGG CTGTGCTGGC AGAGTTTATA CTTTGATAAC TGAACCCTAG
AGTAAGCCTG CCTTGGGAAA TNCAGCTCA AGGGACTGAC AGGCATAATG CTCCTTGGGA GAGAAATGCC ACATCTGCAG
CGACACGNAT CCTTAACACT GTCCAGGAC T

SEQ ID NO:1006: (Length of Sequence = 336 Nucleotides)

TATTTTNCAG ATATGGATAA AAATTGCTTA GGAGAGTAAA GAGAGACAAA GTTGAAAGCA GGTTTATAGT AGGTGTGTGT
TTAGTGTGA TCCCTTTTTC CTCCAATAAT CAAAGTGATA AATATTGAAA ATTGATTCAT GCAGCATTAC TTAICTCATT
CTAATTTTNA TATATGTCAA AAGTGCCATC TCCCAAACCTG TGCTATCCCC TTCAGGAGAA GAGACTCTGC TGAAGTTTAT
AAGGTTGACA TATTGCCAGC TTCAATAATG TAAAGATGAA GTGTATACTG GAATTCCTTA TGCAAATAAC AACTCTTTTG
GGAAGTAACC CCGTTT

SEQ ID NO:1007: (Length of Sequence = 355 Nucleotides)

GGCAAGAAGG CGTCGGCGGC GCANTGCGGA TCCAGAAGGA CATAAACGGC AGCTTGTTC TCCAGGCTGG TGGGCTTINGT
GCCCCGGCC TTGGGATGCT TATCAGATC CTTTGGGACC AGAACACTGG ATATCAGTNC AGCCTCTGGG CCAGCTTCAG
AGGCTGTTAG AGCATCATTG CTGCTGTGGC TGATGCTTCC TTTCTCAGT AAATCACAAA AGTCGTGTTG GCCATCCAGG
TTACCGAGTG ACTTAATTTT CAGAAAAATT AATATTGAGG TCATTATTGT ATGCATTTTC ACTGTGCGCA TTTTGTATC
CTCGTAGGTA GGTCATGAA GTACCACTGG GGTC

SEQ ID NO:1008: (Length of Sequence = 269 Nucleotides)

ATATTTAAAG AGAGCTTTGG TCAGTAAAAG TATAAANCT GAGCTTTGGT AAGGGTACAG TTTATAAGGC CTAGAGAACA
TCAAACATT CATTTTATAT TGAATGTATA AATACCCACA TGTGAGAGCA CATGTTGATT CAGTTTGAGT ATGCTCGCCT
TGTTGNTCTT TAAACCTTT CCAGCCTGGG TTATTTTCCC AAGCTTCTT TATAATTACA CCAGGGAAG AGTTACCNGG
NATTAATCAA AACCAGACAG TGGACAATG

SEQ ID NO:1009: (Length of Sequence = 295 Nucleotides)

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GATAGCAGCA ACATACGTTT GTTTATTCAT TTGCTTACTT ACAACAAACG TTTATTCATT ATTTATAATG CAACAAGCAT
 TAACCTAGGT GCTAAGGAGA GAAAAATGAG TAAGACACAG TTTCTTTTCT CAAGGAAATC ACAGTCTGTT GGCAGAGATA
 AGTAGTAATG GTGCCTAATA TAGGTAACAC TTGCTACCTG CTCCAAGAAC AAAGTTAAGC AAGTGATTAA GTTAAGCAAT
 GCTTAGAGGT AGAGGATGTA AGANTGGCCT TAAAAAATGT GTCTTCTGAG ATGAG

SEQ ID NO:1010: (Length of Sequence = 356 Nucleotides)

GTATTTCCCTC ATTTGTGCAA ATNAAATAGA AAAGGTAAAT NAGAACTCA AGAGGTTTGT TACCTACTGT CAATGGAGTG
 GGGAAAATGG GTGGAAAGAA GAAGGCAATA AGAAAAGAGT AACAGGAAAC GACAGTNGAC ACTTCTGAGT ATACCTTGTG
 GAATCTCTTT CACTCTTAGA ATCATAGTAA TAGANGANGA AAAAAGAACT CCCCAAACCTG AAAAGGATAG ACCACTGGAA
 CAACTTCAAG TGGTCTAATG TAGAAGCAAA TGGAGTCCCT CAAGGAAAGA AGAGAGGTTT TGAAAAGAAA AAAACATTTG
 AAGAGTTAAG AGCGAAACAC TTTCCAACT TAAAGG

SEQ ID NO:1011: (Length of Sequence = 315 Nucleotides)

AGAGAGACAC AACTGTAATA GAGACACAGA GGAGTGGCAC ACAGAGACCA CCTCCCAGCT GGAGACAGTC AGGAAGGACT
 GAGGGAGAGG GGACAGCCAG GGCTCCACAC CCAGGCAAGA ATGGGGGAGG GCTGTGGAA CAGAGAAGTC ATCAACACAC
 ACAGTTCAAA GTCTACCTTA GGCTAGGAGG GGGAGCAGGA AGAAGGGGCA GGGACGCAGG GGCCCGGCCT GCNAGCTCCC
 TGTGGCCTC TNCCTGCCCC TGCTGGCTCC CNCTGCGGTG CTCAGGCAGG AAGAGAGGAG GCTGCTGTTT TTAGG

SEQ ID NO:1012: (Length of Sequence = 272 Nucleotides)

CCCAACTCTA TAGCCCTAGT CAACCACTAA TCTATACCTT GTNCTCTATA GATTTCCTTA GTCTAGAAAT TTTGTATAAA
 TGAAATGCAT GCACTTGAAC TTTTGTATC TGGCTTGCTT TTCCATTAG CATAAAGTTT TAAAGGTCCN CATATGTTGC
 TGCATGTGTG CATTTCTTTT TGTGNACTGC NATATTACAT TGTATGGGAT ATACCATTTT GCCATATTIN GTTAAATCCA
 TTCATCCAGT TGGTGGGACA GCAGTTATT TC

SEQ ID NO:1013: (Length of Sequence = 252 Nucleotides)

TTTGTTAGTG TTTTCTACAC TACACTCAAG TTCATTGAGC ATGTCAATTC AACACATGT GACGTGTCAA CTTCAAAAAT
 TAAACAAACC AGCNAACAC AACACTGNC ACTACAAAGG AACTTGTTTT ATTCTCAACC TTCTATGATA GCTAAACTTC
 TCTGNAATTT NGTTCCCCCA CACATCCAC ATCTGGGCTC AATTTCCAGC TCTGTINTT CTGTTTTATT TCATCCAAAA
 TGTATTTTAA AT

SEQ ID NO:1014: (Length of Sequence = 210 Nucleotides)

GGGATACACT GACAGTAATG TGAAGCGCA CACTTGCAGA TTTAGGCCC AGCAGTCTT GNCAGTGC CATTCCACCC
 GGAACTTTTA ACCCAAGCGG TGGGAAGGA AAGCCAAAAC TCCAAGCTGG CACTTTTTTG GGGTCTGGG CCATGACACT
 TCTTAGGCCT TCTGTGCTG AACTTTTACA GGGACAAAAG GTACCCACG

SEQ ID NO:1015: (Length of Sequence = 222 Nucleotides)

GGNAAGAAAG GTTCTCAGA GGACAGCCTT ATTAATTCT CAGAGGATGA ATTNAGCAA TGGCAGCAG TTGCAGTCAC
 AACTTCTTAA GGTGCTTCAG AGGCTGATTG TTCTAGNAA CACAGAGTAA TGAAGTATC CTGAAGAGCA ATGAAACAGG
 TTTTGAATTT TTTGTATCT GNACTTAGNA ACACATCAGT CCCATCAAC CCATGGACTT CT

SEQ ID NO:1016: (Length of Sequence = 236 Nucleotides)

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GAATAAACTG GTTGGGAACC AGAAAAGTAC AAAAAAGAAC AGCTAGAGGT ACATAGACAC AGGACAATTA ATCAATTGG
GAAAAAAGAA AGNACTTACT TTCTCCATTG CTGCCTGAAT TGTTTCCCAA TCTGCCTTGA AATGCCACTT TTGGCCAATA
TTTTTNCAAA AATTTGACCA AAAAAGAAAA AGCACTNAAT TTCCCTTTTT ATACAAAAAT GNTTAAGTAG GCAAGT

SEQ ID NO:1017: (Length of Sequence = 259 Nucleotides)

GCTTCCCTAG ATTTTCCCT AATTTTGGAC CTATGTGGAC AAAAAAATA ATCTAGTCCA AGCTTTCCT ACCTTCTTTT
TTTATTCGCC TTCTGCTTCT GNGTTCCACA TGGGAACCTG AAGTGGTTTA TAAGAATGCC ATGCTGTGCA AATAGTAAAA
ATGAATTINC TGATTTTAA AAAAGCCCTC AGGAACGGCA TATGTATANG GTATGTATAT GAAAAANGT GTTNAAGGAT
GCAGGAGGGA AACTAGGCG

SEQ ID NO:1018: (Length of Sequence = 354 Nucleotides)

CTGGAGGAGG AGAAGAAGCA TCTGGAGTTT ATGAATCAGC TAAAAAATA TGATGACGAC ATTTCCCAT CCGAGGACAA
AGACACTGAT TCTACCAAG AGCCTCTGGA TGACCTTTTC CCCAATGATG AAGAGACCC AGGCAAGGA ATCCAGCAGC
AGCACAGCAG TGCAGCCGCG GCTNCCAGC AGGGCGGCTA CGAGATCCCC GCGCGGCTGC GGACGCTCCA CAACCTGGTG
ATCCAGTACG NCTCGCAGG GCGCTACGAG GTAGCTGTGC CCTNTNCAA CGAGGCCCTG GAGGACCTGG AGAAGACTTC
AGGACACGAC CCACCCGAC GTGGCCACCA TGCT

SEQ ID NO:1019: (Length of Sequence = 393 Nucleotides)

GATGACCGAT TTGGCCATGG AAGACTTATC TTCATGGCAC AGAGAGNYTG TSCAGAGATG AGTCAGACTC AGGGGCTGAG
TAACAGCAGA GCAGAGAGTG CAGAAGTGA CGCTCAGAAG CGAGTTTATG TGIGTYTTTY CCTCTATCTG CTGGCTGTGG
CTGGTACTGC AACCTATCCC AAAGTAACAG CCTAGTCAAT GAGGTATATG CTTGAGATCT GGCAACTCT CTCTGCACAT
AAACTGTTA TTCTTAGTTC TCTGAAAGAC CCCACATCT TTGAAGTGA AACTAAGAGC TACATTTTCC CTTTACTAC
ATCTCCCTTA AAAGGAAAGC ACTACAAGAG CTTTAAAATA GCAAGCTTCC CTATTCTAAG GGGAAANAGT CTT

SEQ ID NO:1020: (Length of Sequence = 403 Nucleotides)

CTGAGGAAGA GAGGTGAAGT GGCATCTACC CAAAACACCT GTGTACTGGT TAATAAGGTC GGTAGTTCCC ATTAATGAGC
TTGATGAAGG ATGGCACCTG ACAGGGCCTT AAATGANCTG ATGGAGTGAA TGTNACCAGT GTGAATTAAA TTNCTTTAT
ATATAATAAA TAGCTGTGCT TACACATTTT CAGATTNCT TTGTGAGCTA TGGACATGGA ACAGCGGGAC TATGATTCTA
GAACAGCACT CCAATGTAGCT GCTGCAGAGG GTAATACAGG AACTACTCCT ATCTATTTCC TTTCCAGATT TAATTTCTAC
TTAGTACTAA AATCTGCTCT TTTTTTGGG GTGGGACGGT ATAGGTCATG TTGAAGTTGT TAAATTTTTT NCTGGAAGCC
TGC

SEQ ID NO:1021: (Length of Sequence = 452 Nucleotides)

ATCGCAACCT GGCAGGGGTG TGGGGTITGC TGGGGGCCTC TGTGGGGCCA TGATCTGAGG AGGGTATGTG GGGGGCGGGA
GCTCAGCACA TTCCATGGCC TAGAGGGGCC ACACAGAGGC CCCAGTGGGA CCCATGGCGT GGAGGCAGGT ATGGGGAGTT
KTGGGGAGAT CCCAGGGTGG TCTGGGGCCT GGAACGGGCC ATTKGGAGGC CCCAGCAGTT TCAKTGCCCA GGGCCTCCCT
GCAGAGCCAT GCATGGCAGA AGAAGTGTGT AGCATGAGCT GGTACACGCC CATGCCCATC AAGAAAGGCA GTGTGGTCAT
GCGTKIGGAC ATCAGCAGCA ATGGCCTGGG GACCTTCATT CCAGATAAAA GGTTCCAGAT GATATCAACG GCTTCTTGAA
GAGAGACCCG GGCAATAACA TCCATTCAAT TGGGAGAGGA GTGAGGGAT NT

SEQ ID NO:1022: (Length of Sequence = 413 Nucleotides)

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AGCAACAGAA GAAAGGGCCA CATATATGCA AATGCCTGGT CACTATATCT GGCCCTGAAG AAGGAAGGAG TTTCAGGGC
 TCAGGAGACT GGAAATTTT NOCAGGAGCT AGGAACGAGG GGTGGGAGA CGTTGGTCAA AGGGTACAAA GTCCAGTTA
 TGCAGGATGA ATAAGTTCTG AAGACCTAAC ATACAGCCCA GTGACCATAG TGAATAACAC TGAATGANCA GTATACTCGA
 AATTTGCTAA CAGAAGAGAT CTTAAGTGTT CTCATAACAC ACAAACATA GCAACTGTAT GAGGTGATGG GTATATTAAAT
 TAGCCTGACT GTGGTTATAC ATTTTATCAA AATGTCACAC TGTGGCTGAG TNCAGAGGCT CATACTATA ATCCCCANCA
 TTTTGGGGA GCT

SEQ ID NO:1023: (Length of Sequence = 379 Nucleotides)

TCAAGTCTCA AAACCTTTAA AGACAGTAGA TATTTGTTGT TTTCTAGCTA AATGAGGGCC AAGATTGGNC TTTTCAACT
 AAATTGAATC ATGTAGTATA TCTGATTCA TAGCTTTCTG GGGGAAAAGG GAGGATTGA ATTAGCAGCA GTGCAGGTCA
 GGAGCAGTAA AGAAGACAGT AGGAGGAGTC CAACTACAGA TGTGAATGAN CAGCCTCAGA GGAACACATG AGAAGGTGAC
 CTGCTGTTTA TCAGGAAGGC GGGGCTTCT CTCTAAGATA CAAACCAAT AGGAATCGTC AAATAGTTCA AATTATCCGG
 GGGAAAAGC CTGAGCAATG ATCCCTCTGG AAAACAAAGC AGTTCTCAGG CAGCACCTT

SEQ ID NO:1024: (Length of Sequence = 320 Nucleotides)

AGTCTACAGG AACAAAGAAA TCTAAGATGG CTGCTCAGCC TTGAAATGTA CATGTTTTCG AGCAAAGTTG TGAAGAACC
 TTCCGTTGGC ACAGATTGTC CTTTTTACA AGCATAACA AGCCTCCTTC CGCCAGGNC TCTTCGGTTG CATCCTGCA
 AATGGCTCCC AATTGACACA TTCCTAAGTC TAAGAGATAC CCACTAGGGC AGCTTGTAACA GTTCTTGAAT CCTGGGCCAT
 TGCACGTCAA ACAACTGATA TCACATTTTT TTGCAGGAT TGTATCCATT CTCTGAAGAG TGTCAAAGT AATAGCTGAT

SEQ ID NO:1025: (Length of Sequence = 366 Nucleotides)

TATTTAATCA TTCTTTTCTT TGCCTGAAGA CTTAAACTA AGAAGATTAT TCGAATGGTG AATTAAGTTG TTGAAGAGAC
 TATTCCAAAG GGATAGAATG AGACTAATTY CTGACTATGT TTTGCTAGTG ATGGGTGGAT GGAACAAAC ATTACAAGAA
 ATAGCATAAT GAATGTAGAA AATATTTTCA TTTGAGATG TGCATGANIT AGTTTCCTAG GTTTGCCACA ACAAGCATC
 CCAAAGTGT GGCCTAAAA ACAGAAATTT GTTTCATGGT TCTTGAGCCT AGAAGGTCAA AATCAAGGTG TTGGCAGGAC
 CATGCTCTCT CTGAAACTCT AAGGGAGAAG CGTTCTTTGT TTCINCT

SEQ ID NO:1026: (Length of Sequence = 379 Nucleotides)

GGTGCAGGTG CATACAGGAA GGACCATGTG GGCTCAGAGC AAGGGGGCGG CCATCTCCTA GCCAAGGAGG GAGGGCTCCA
 GGGACCCCAA TCTGCTGGC ACCTAGGCCT TGANCTTCCA GCCTCCAGAC TGGGAGAAAA TAACGTCTCA TTGTTAAAGC
 CCCAGCAAA TGANTACAGA ACCTAGGAAG GGGCAATGAA TGANTGATAG GTGGAAGGGC TAAGAAGAAA AGAGGAGGGA
 GAGGAAAGAG ACGTGCTCAG ATCTGTCTCT NCTGGACATC CGATCCAGG CTGTCTCTTC AGTGGGNC CAAGTCCAACTA
 GCACTCAGCT CAGAAATAAT CCTNAGGCA TCGAAGCTTT CACAAAGGAG GNCACAAA

SEQ ID NO:1027: (Length of Sequence = 411 Nucleotides)

GCCTTGGA CTTAGAAGCA GCCAGGAGG AAGTACTGAC CATTTAAAG TGGCAGATCT CCGGGCCCCA TTCTGCAGC
 CTTCATTCTG CAACTCCAGG GAGGGTATTT TTATTTGTG GGTCAAAAA ATCTGTATAT ACAGTCTATG TGTTTAGAAT
 TTGTGTTGTA AGTAACTAC AGCTTTGAGT TGGAAAGAAG TCACGGGTG TAAAACCAT TGGATTTTTT TAAAACAAA
 GTATTATATA TCTGGAAGAC AGINTTGCC AGGTGAGGAG TGTTTCTTG GTGGTCCAG CCCCCATCA TTGAAGTTT
 TCTGGGCTCA GTCAGACACA GACATTCATC TGTGTCGAC CAAATCAGG GCTTCCAC CTGTGGGGA GGGCACAGTT
 AGGATGTTTT T

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SEQ ID NO:1028: (Length of Sequence = 401 Nucleotides)

GATCATCATG CAGCTCAACT TTCTGTTGGA TTCCATGCTA AGCAAGCTAA CCTTATCCTG CATGTGTAGC ACTAGGCACC
CAGCTGCCAC CTCTCCATCC TGCTGCCCTT AGGCCACATG GGAGCAGTCC ATGCATGACA GCGTCTATCC TACAAGGCCT
ATGAGTATGG ATTGGGGGGG CCAAAAGGAA AAAGCTOCAT GTGCCCTCTT GTCTGCGTGG GTCAGAAGAG TTGTGCACGC
AGATTAGCAG GCCAAGGTCT GAGCCACAGC AGCATTMTTA TTTCAGATTT TGATAACTGT TTATATGTGT TGAAACCAAA
NTGNCATCTT TTAAAGCTT ATCCATAAAA AAAAATAGAT GTCTTTTATA GTGGGAAAC ACATGGGGGA AAAAATCATC
TATTTTGATG CAGCATTGTA TAATGNTTAA ACACCTCACA CCTCACTCTT

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GAAAAATGCC AATTGGATGC CCTTAGGTGG AGGTGAGAAA ATGGCATCCT TGCCCTCTTC TCAATATGAA ACATTAACTA
GTTGACAAAT TTATCCTTGT AGAAATGAAA ATCTATTTAA TCAGGGACCA GAAATGGCTG AGGAGATAAA TGCATCAITA
CAAATTCCTG CTTTGAATC CTGGACATTA CAAGGGGGTA AATGCAGCAT GACTTTTGT TAACCACATT CCAAATGTG
GAACATTTCT TTAGAAATG AAAATATTTT AAGGCTGATG TATTTTAAGN CTACACATTA TCAGGNCAT ACATTGAGAG
TTCGCTTAAT TAAAGTGTG TGGGCATCAA ATTATGTTA GTAGGTACT ATTCTTAAC AACTCAAGN TGCTTTAATG
G

SEQ ID NO:1030: (Length of Sequence = 340 Nucleotides)

TTCCCGCTG ATCCAAGAA CCTCTCGAT TTAATTTTN ATTTTAAAG AGGGAGACGA TGGACTGAGC TGATCCGCAC
CATGGAGTCT CGGGCTTAC TGAGAACATT CTGTTTGANC TTCGTCTCG GAGCAGTTG GGGCTTGGT GTGGACCTT
CCCTACAGAT TGACGCTTA ACAGAGTTAG AACTTGGGGA GTCCACGACC GGAGTGGTC AGGTCCCGG GCTGCATAAT
GGGACGAAAG CCTTINTCT TCAAGATACT CCCAGAAGCA TAAAAGCATC CACTGCTACA GCTGAACAGT TTTTTCAGAA
GCTTGAGAAA TAAACATGA

SEQ ID NO:1031: (Length of Sequence = 452 Nucleotides)

CCAGGGGAAG GNTCCCAAGG GACGGGCTGG CAGCCGACA CATGGACAAA CTGATGGACC CAGGACTGAT CAGACAAAGC
TCTCATTAGC AGAATGTGGG CACCTGCACC CAGGGCCCAT ACCAGTCCC TGTGAGCAA AAAGCTTAAA GTTCTCCCTC
CAGGCCAGG GCCAAGAGCG CCTCACAAG GGCTGCTGCC TTGAAGTTGG CCTGGGGAAA TNAGACCTG AGCGGACCAC
AGCCCTTGAG CCTGGGAGG AGCAGCCCAT CCAGNAGCAG CACAGCTNCC GAAACTTGAG GAAGAAGACT TCCACCCATA
GCACAAGAAC TGCAAAATCT GTCTNGNCA GAGCCACCAG AGGCCITAGG CTTCTTAGGA CACCGATATC CCCCATTCAT
GGGTTINGGA GGGAGTGGCT TTTTTAGCA AGGGACTTTG TTAGAGAGGT TT

SEQ ID NO:1032: (Length of Sequence = 411 Nucleotides)

GAATCTACAG AAACATAAAT TATACTGAGT TGTCGTGAC TGGTTTGTA GAACATCAGT GTATTAGGA GAATGGTAGT
TTAATTTGAA TATTTAAAGA AAGTAATTG AATGGTCTA GTACTAGGGC CATTTATTAAC TAGTAACATA GATTAGTGAC
TTCAACTGGG TGTCCTTATT ATCTGATTG TCTGAAGTGA AAAGTGTAA GGTGCTCTT TAAATGTAT TTGGAAACAC
CATAGTTAGG GTAAATNCAA TGTCACAATT CACTCTGCA TATTATTTNC TTAGCCAAAT TTATGAATC TAAGTTAGGC
CAAATGAAG GTTTGGAGTT TTACATTGTG GNGAGTCTA AATTCATGCG TTTGGCAAGC ACCAAGGNCA TGGGGAAAGA
ATCTGGTATT T

SEQ ID NO:1033: (Length of Sequence = 372 Nucleotides)

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AGTGGCTTAC AAAACACAAA TTTATTATCT TACCATTCTG TGAGTCAAAA TTCCAAAATA GGTCCTACTA GGCTAAAATG
 AAGGACTGCA TTININCCCTG CAGGCTCCAG GAGAGATCTA TGCTTACTC TTINCGGCTT CTAAAGGCTG CCCACATTCC
 TCGACTAGTG GCGTCCCTCC TTCATCTCTA AACCCAGCAA CAACAGGTTG AGTCCTCATG TCACATCTTT NITACCTTTT
 TGTCATCTCA TCTCGCTGAC TGCTGCTGGG AAAAATTTCT CACTTTTAAG GGCTATCATG ATTAGACTAT GCCCACTAGA
 TAATACAAGA TCTCAGATCC CTTAACTTCC ATCACATCTG CAAAAGTCGC TT

SEQ ID NO:1034: (Length of Sequence = 320 Nucleotides)

CGCGCCGCGA CGGACGCCCT CAACCGGCAA ATCCGCGAGG AGGTGGCGAG TGCACTGAGC AGCTCCTACA GGAATGANTT
 CAGGGCATGG ACGGACATCA AGCCTGTNAA ACCAATAAAG GCCAAGCCCC AGTACAAGCC CCCAGATGAT AAGATGGTTC
 ATGAGACCAG CTACAGTGCT CAGTTCAAAG GAGAGGCCAG CAAGCCAACA ACAGCTGACA ATAAGGTCTAT TGATCGCAGA
 AGAWTACGCA GCCTCTACAG CGAACCTTC AAGGAACCCC CAAAGGTGGA AAAACCTAGT KTTACAGATT TCAAACCAAA

SEQ ID NO:1035: (Length of Sequence = 375 Nucleotides)

TTTTTTTTTT TCAGTGGAAA ATAACCTTNA TTGAGACCCC ACCAACTGCA AAANCTGTNC CTGGCATTAA GCTCCTTCTN
 CCTTTGCAAT TCGGCTCTTC TTCAGTGGTC CCATGAATGC TTTCTNCTCC TCCATGGTCT GGAAGCGGCC ATGGCCAAAC
 TTGGAGGTGG TGTCATGAA CTTAAGGTCA ATCTTCTCCA GAGCCCGCCG CTTCGTCTGC ACCAGCAAGG ACTTGGCGAG
 GGTGAGCACC CGCTTCTTGG TTCCACCAC ACAGCCTTTC AGCATGACAA AGTCATTGGT CACTTCACCA TAGTGGACAA
 AGCCACCAG AGGGTTGATG CTCTTGIMAG ATAGGTCATA GTCAGTGGAG GCATT

SEQ ID NO:1036: (Length of Sequence = 304 Nucleotides)

CCTATGCT TCTTCTTTT GCTTCTCTC AAGTAGAG TGACTTTTTT GAAGGTTAGC TTCTTCTAAG AGTTCATGC
 TATNCTGGC TCTTACAATA GCTCATATC TCTNATTNC TAAITCATTG CACTTTGCTT GTAGCTCTCT GGTCTGTTTT
 TCCAGATGTG TATTINCGN TCTNAATTGG TTGGCTTCTT GGATGTGCAC ACATAATCTT ATTTCTAATT GTTTTATACT
 AGACTGTAAC TGCTGTAAAC GGCTATCTGA TGCTTCTCT CTINCATGGG CAGACACCAC ATCC

SEQ ID NO:1037: (Length of Sequence = 341 Nucleotides)

CTATGAGGAC CAGCAATTAG ATTTTATAGC AGTACTTCCC ATTAAAGTGA ATAACCAAAA TCACTTTAAG GTCAAGATCT
 TAGTCAATAC ATTATGTAAA ANCATATACA ACAGACAATA CACCAGAAAC TAAATCTTTT GCAACCTTTT AAACCTATGA
 TGAAAAACAT TAATGTCAGC TCTAAAAATG ATTAAGCAGT TTTTCAAAAA AAAATGTATA GAATACAGGA GCCAAAAACAT
 TTANCAATTA CCTAACTTG CTGACACAGA NTACTATTAA TAAATAATAC TGATCANNEN AAAGTAATCA ATTTGAAAGT
 GGTGGGGGTA GAAGGACAAC A

SEQ ID NO:1038: (Length of Sequence = 281 Nucleotides)

GGAGGCTGAG GTGAGAGGNT CCTTGGGCC CAGGAAGTCA AGGTTGCAGC AAACAGTGAT TGCACCACTA CACTCCAGCC
 TGGGCAACAC AGCAAGATCC TGCTCAAAA AAAAAAAAAA ATATCAGTAT TGTTTTATTA ATTGTAACAA ACACACTAAA
 TAAATGTAAG ATGCCAACAC TAGGGGAAT AGGATNTGGN GTAAATGGGA ACTCTCTGNA TCATTTTTGC AACTTCTCTG
 TACATCTTAA ACTATTTTAA ATGNTTCTAC AAAAGTTAAC A

SEQ ID NO:1039: (Length of Sequence = 246 Nucleotides)

CCAATGATGG CAAACATGAG GATGGCAAAG AAGAGAAGCA GCCCAATCTG CAGGAGTGGG ACCATGGCCT TCATGATGGA
 CTTGAGCACC ACCTGCAAAC CTGGGGCCAG AACAGGGCAG GTCAGGAAGC AACGTGGGCA GGGTAGGGCA AGGAATTTTG

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TGGGGGCAGG GACAGANCAG CAGGAACCTA GCAGGGACAG CAAGGTGCTA AGCAGINAGT GCTTTCAGG GCAAAGGTTA
GAGCTG

SEQ ID NO:1040: (Length of Sequence = 399 Nucleotides)

GAGGTCAAGA AGAGCTTAAG AAAATATAGG AGATACTACA GCATGTTTGG TTCATGACCG GAATGATTTA GTAAGAAGGA
AAAGCCAATA ATGTAAGAAA GCGGATTGCA GGAGCAAAGA CTTTAAGGAA TAAAAAGNC AAAATTGTTT GTTCTCAGG
GAAGTAATGA CAGGGGCTGA GCAGGAGCCA GGAAACCCAG CTTTATAGCTT CAGNTCTGCC TGACATTTAT TGGTCATGTG
GCTCTGGGTG TATTCTCACT TCTCTCCCT AAATAGCAAG AAGGAAAAGC CTCTTGAGC CTCGTGTCTC TGCTTCTTC
TGTAACATGG TTATGTTTCT GNTCCGCTTA GCTGGTAAAT TATAGAATCA COCTNGCTGG GGTCTTTTGG GGACTGGCC

SEQ ID NO:1041: (Length of Sequence = 324 Nucleotides)

CCATAACAG TCCGTCACAG ACAATGTTG TTACGCAGCA CATTTATGC AGTGTGTGAC CATAACGAT ACACAGAGGA
AATTGAGGGC TTCTAGGAAA CCTCTAAGG CTTATCTCC CTAAGGGCAC CTGATGAGCC ATTCTCACC CCTGCACG
ACCAGNCTC CAACACCACC ACCAAGGCTA ACCGCTGTG ACTCTGGGCC CTGGGTCTG AGTAOCTGGC TCCCAAGCAC
ACCAGCATCT GAAAACTTGN CATCCTTGCC GATNTTNOGG GGAGTATTGG TTGATTGCAG TGACAAATCG GCAGAAGTTC
CGGG

SEQ ID NO:1042: (Length of Sequence = 212 Nucleotides)

ATCTGTTTCT CAGAGATGAC ACTGCCAACA ATCAGAGATT TGCATACAAT ACAGTTATGT ATTGGCTATT CACAATTAC
AGTAGTGTG TTCCCTCTGA AAAATATAAG TNCAAAAGCT AAGTAAACAA TNGGTACTG CCATTGGGN TTTTITACAT
GGNCTTAGCT TAAAGAACTG GTCITTAGCA AATATTCAAC AGNTCAACCT GA

SEQ ID NO:1043: (Length of Sequence = 329 Nucleotides)

ACTTGGAGAA AGAAAAATTA GAGAATTCCA GATCCTTAGA ATGCAGATCA GATCCAGAAT CTCCTATCAA AAAACAAGT
TTATCTCTA CTTCTAAACT TGGATACTA TATAGTAGAG ATCTAGACCT TGCTAAGAAA AAACATGCTT CCCTGAGGCA
GACGGAGCTA TTCCAGATGC TGATAGANCC ACTTTAAATC ATGCAGATCA TTTATCAAA ANTAGTNCAG CAGCAAGATG
AAGAGCGACG TCGGCAGCTG AGAGAGAGAG CTCGTGAGCT AATAGCAGAN GCTCGATCTG GAGTNAAGAT NTCAGAACTT
CCCAGCTAT

SEQ ID NO:1044: (Length of Sequence = 285 Nucleotides)

GTGAAGCTG TTTTATTTT ACACCTTCT GTTTTAAAC ATAGGGACTG ACAGGGAGAC CCAGGGCTGC AATCTGGGTG
GTGCTACATT TGTAGACAAG GACAACTTC TGTATTTTAA CCCAGAAACA TTAGAAAGTT TGTCCTTGAA CTTCTGGCTC
AGATTTAGAT GCATCTTGA AGTGCTGATA TTTGGCTTAT CTGAAGCTTT GGGATTATCA TTTNCTAGTT ATGAAGGGAA
TGAAAGTGT CATAACATTT TTGCAGGTGG AAGGTAAAGT TGTG

SEQ ID NO:1045: (Length of Sequence = 317 Nucleotides)

TCGGTTACTG TAGTATGTGA GTATAGTTG AAGTCAGCTA GGTGATGCC TCCAGCTTG TNCITTTTGC TCAGGATTGT
CTGGCTATA CAAGGTCTT TTTGATCCA TATGAAATTT AAAGTAGTTT TTNCTAATTC TGTGAAGAAT GTCAATGGTA
GTTTCAATGG TATAGTATTG AATCTATAAA TNATTTTGGG CAGTACGGNC ATTTTCAIGA TATTGATTCT NCCTATCCAT
GATGATGGAA TCTTTTCCA TTTGTTTGG NCTTCTCTA TTTCTTGAG CAGTGGGTTT GTAGTTCTTG GACAAGA

SEQ ID NO:1046: (Length of Sequence = 316 Nucleotides)

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CCAGGTGCAA TCTCGGCTCA CTGCGACCTC TGCTCCGCG TAGTGGGACT CCAGCTGTGC ACCACCCAGT CAGCCCCACG
 CCCACCTGTC CAGGCGTGTG CACGGTTCAG CGTCACTTTA CAGATGAGGA AACTNAGTCT TTGGGAAGCT GACAAGGTGC
 CTGACACAGG CCAGGGCAGG GNCACCCCTC ATGGGCTGTG CTGCAGCCTC TGCTCGTGG GTCACGGCAC CCCATCTACG
 AGGNGCCCTT CAAGGATGCG CCGTCGAGTN CCCGGGGCCC TTGGCATGTA CCTGGCAGAG AAGGCAGCTC AGGGGT

SEQ ID NO:1047: (Length of Sequence = 261 Nucleotides)

CTTCTCAAA CTGGGTTC AGCTGGGTCT CAAACTCAGG CTCCAACCTG GTCTCAAACT CGGGCTCCAC CTGTGTCCTA
 AACTCGGGCT CCACCTCGGT CCCAACTCT GTCAACACCT CTCTNTAGGT CTCANTCTCC GACTCCTCCC AGCCAGCGGT
 GGTGGCGGT ATNAGGCCCC AGGGCTCTAT GGTAGTGCTC AGGGTGTGTG GCAGGGGCAG GGGGCAGCGT GGGAGGCACA
 GTGTGGGGG CCTAGGGTGG T

SEQ ID NO:1048: (Length of Sequence = 390 Nucleotides)

GAGAACAAAG AGAATGGAGG CCACATACAA TGGAGTAACA GAAGCTTTCC CTGTAGCTCA AGAACCAAGC CGAGAATCCA
 CACCTCCTGA TTCACAGTTC AGTATTTTCG GCCACTTTAC TCAAAATATT TTATAAATTA TTTTAAATC GGCAAAATAT
 TTAAATTTCA TCCATTAAAT TTAAATTTCT AGATGCCCTA GTGGCATCCA GAACACATAT TINGGGGAAA ATATTCTAAT
 TTTTAAAC AGAAAAAGCT AGGNNCAGAT GATGCATTAA AAAAGTAGAA CACAGAGCTC TTAATTTAGG AATGATCAAA
 ATAGGGTTGA TTCAACTATT ACCTCTCTCT AGGGATTATG GATCAACCCC TAGCAGCAGN CAAAGTCACA

SEQ ID NO:1049: (Length of Sequence = 335 Nucleotides)

AAACTCACAA GTAAAATAAT GCATATTTAA GGGAAATATT ATACAGACTT TTTACACAG AAGTACATAA TANGATTTTT
 TAAAATCTAT TGCCATTCAT TTATTTTTCG ACAAACCGT ATAAATATGT CACCAGCTTT NCTTAACCTA AAAAATTTAA
 ATAAAAGACA CCAGATGAAA ACTACCTTT GCTGCCATTT TTTTAAAGT TTTTGTAG GGGTTTTTA TTTTGGGT
 TTTTNTCTT TTNTGCTTA GAATTGGGT TCTAGGGAAG AAAAGCCCT GCATTAAAA CAGNCCATTT AAAAAAAAAA
 TTCAAAGTTC TGGAT

SEQ ID NO:1050: (Length of Sequence = 265 Nucleotides)

AAAGGGAGGG AGGGAGGGAT GTGGAAATA TGCAAGATAA ATTAAATNCT TAGTTAAAA AAAAAAAG TTTACCAAC
 TGNTCTCAT TACTGAGAAG CCCCACACT GCCCACCTGT GCATATTCCT AGTATTTTAT CCATGTCTG CTCTGCTGTG
 CTGCCCTACA AAAAANCCT CCCGGGGGGG AAAAAAANC AAAAAANC GG TAGTGTGA ACTGCTGAAG AACTTAAATG
 TTCAAGNCA TCTTAAAGT CTAGG

SEQ ID NO:1051: (Length of Sequence = 298 Nucleotides)

ATTCTAAAA TGCTCTCAA TACTAATATT ATACATTCTC CCATTATCC TCAAAAAACC CATGAGACTG GTGATGTAAT
 TNGTGTGTC ATTTACAGC TGTGGCAGTC AGTCTAAAGA CCAAGTGATT TGCTCAAAGT CATGGAACAC TTAAATGSCA
 GAGCTAAGGC TTAAACCCAG AATTAAAAA TTTTTFNAG CTCTINGTTT TTNCCATTAT ACCAGTTTGG CCCTTCATTT
 TATTCATGGG TTAAATTAAA TTATGGTAAC AAAGGGCCCC TGGTCACTTT GGACATTT

SEQ ID NO:1052: (Length of Sequence = 359 Nucleotides)

AAGGCAAACG TGGTACATCA TGACACCATG GGAATGACTC ATGCCAGCCA TAAAAAGAT GAGAATTCTG TCCAGAAATG
 GTTCTTCCG GTGGGTCTT GTCTCGCTG ACTTCAAAAA TGAAAGCCAT GAACCTCGT GGTGAGTGT AACAGTTCTT
 TCAAAGATGG TGTGTCGGA GTTNTTCCC TINCAGATG TTCCAATGT TATCCAAGT TTCCTCCCT CTGGTGGGT

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CGTGGTCTTG CCTGATTNTC AGGAGTGGGA GCOGCAGAAC CTTTGCCCTGT GAAGTGTAA CAGNNTCTTT AAAAGGTGGG
TGGCATCTGG GAGTTTGTTC CATTTCTTCC CCAGTGGGG

SEQ ID NO:1053: (Length of Sequence = 195 Nucleotides)

GTTCGAAAT TGTATTCCCA GTGTGGCAG GTGGGGTCCC AATGGGAGCT ATTTAGGTCA TGNAAGGTGG ATCCCTCATG
AAATAGATTA ATGGCCCTCC CTTCAGGGT AAGTGNAAAT NCTCACNCTG TTAAGTCCC ACTGCAAGAA GGTGGTTGAC
CAAAAAGAAG CCNCGTGCCT CCCCCTAACC CTGA

SEQ ID NO:1054: (Length of Sequence = 319 Nucleotides)

ACAAAACCAG ATGTTCTCAC AAGAGCCCT GCTTGAGAT CACTTACATA GTTTTGGGG AAGCCAAGAT CGAAGATTTA
TCCAGCAAG TCACACTAG CAGCTGCTGC AGAAATCAA AGTTCAAGGT GCAAGCTGTC TCAACATTG CAAGCAAAAC
ACACAGTACT TCCAACGTG ACAAGAGGAG GAGTGCAAGA GGAAGAGGTT CGCTGAAACA GGTGTTAGTA AGTTNAAGGT
ACATAGANTT GGTTCATGTT CACAAGCAA TGIGTTCGAG GGNCAAGEN CAGTTCGAG CCTGTAAGT AACACAGT

SEQ ID NO:1055: (Length of Sequence = 205 Nucleotides)

AACTCAAATA GGAGCTAAAA AAAAAAAAAA GAATCAATGA AACAAAAAT TAATTTTGTG AAAAATAAA ATTGATAGCA
CTAGCTAGAC TAACCAGCAA AAAAAGNTAG CAAGTACCTA AATGAAAANC TGNAATGNA AAAAGGAGGA CATTTACAA
TNAACACAGG AAATACAAAA GTTCCATGCA GCGAACTTAT TCAG

SEQ ID NO:1056: (Length of Sequence = 165 Nucleotides)

TGCAAAATAA TGATTTCTGC TTCACCAGAT TGGTAGAATG TATAAGATGG TGCATGGGA AGCATTTAAT ACCCAACAAT
ATCTGATTAC ATGAAATCA CAATGGCCTC CCTATCAAAT VAGTAGCGIT ACTGTTTGAG CCTGVAAAAC TTTGAAAATA
ACTTG

SEQ ID NO:1057: (Length of Sequence = 203 Nucleotides)

CTTTCATTCA AAACCCATCA CAGAAATGGA CAGCTGGGT CTGTAACAAA GCATTCAATG TTTAGAGCAT AGGTCAGTAA
TTGTATATGA GAGCATACAC TGGCTACATA CAAATTAAT GTTCAGNNCC ACAACTTTIN CAATGTTTAA AACAGGATNA
AGCCTTCCCT GTGAAAAGCA GCACCTTTGT GAACGGTTCT TTG

SEQ ID NO:1058: (Length of Sequence = 201 Nucleotides)

AGTGCAATAT GCACATTACT AAGCACAAAA AACAGTGTA ATTCAGAACT ACTTGCAATTT TTTTAGTTA AATGCCAATG
AATTATTATG CCTTAGTTTT ATGAACCTGN CTNCTCCTTG TGCAATTCCT TCCTTGCAAA TGAATTGACT TNAACGCGT
NAGTGAATAG CCTCAGNCTG TAGGATGTCC TTTCAAATTT T

SEQ ID NO:1059: (Length of Sequence = 176 Nucleotides)

CCCACTGGC TACATACATG TTTTCCAAAT TAAGTTTCT GATGGCTCAT CATTTGCCAT CTCTTCAAAT CCAGGTCCCT
TTAAAAATCT ATGACCTTGG AATGAATGTG CCAGAATACC TGTATCCTGG AAGTCCATGC GAAINTTGGC NTCGACTGCC
ATCCGCCATC TGCTGG

SEQ ID NO:1060: (Length of Sequence = 277 Nucleotides)

GTCAGAAGCA GTGTACAGT ATTACAGTCA GCCACAGAAG CTGTGTGGG GGACAAGACC CAATCCTTCC CCACACCAGG
CAAAGCAGTA TTGGACATGA GTTGGCATGT GGCTGGGCC ACGTCTTAT CCCCAGGNC CTGNGGGGAG ACCACCTTTC

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TGAATGGTTA ACCAACCCT AGGCTACCAC TCTGTATTC ATCAGGGGTA GGGGTATTAA ACCCCACATG CAAGTAAGGA
ACCCITGCCC CCAGTGTGCA AATGGGATGG GGATGCT

SEQ ID NO:1061: (Length of Sequence = 206 Nucleotides)

AGAAAGTAAG ATTCTCAGGG CAACAGTGTA CAGCAGAGTG GTTGCTCCAC AGACAGAGGA GGGCAGAGTG GCCCAGAGTA
TCAGCGTACA GCAAAGTGGG TGTTCCTATC CACAGGGGCA GCGCTATCTC ATAGGANAGA ACAACCCTA GGAAGGCAAG
CGTCAGNCAG NCAGCAGTGN AACAGTCAAC AGTTAGCCAG TGTCAG

SEQ ID NO:1062: (Length of Sequence = 316 Nucleotides)

TINCCCTCAC AGAGTTTTAG TTAGAATCAC TTCTCTATT TCCACAAATC CTCTTTTCT TTCTTTTAT TTTCTAAAGT
GAATGTCCAA GCAAAAAGGA AGCAAAATG GTCAAAGATC TCTTTACAA TATAGTAATA AATTTATNCA AACAACTTGG
AATTCACCCT GTGCATTGAA AATNCACTC CACACTGCAA ATTATGGCAT TTTTCCCNC TCAAAGGAAT TAGTGAAGTC
CATGGATGC ATTCATACTN CTGTTTAGN AATAAGGGAA ACCGCTTGT AAAAGINCAA CATGGCCTAG GAGTTA

SEQ ID NO:1063: (Length of Sequence = 314 Nucleotides)

ATGATCTGGT TTATGCTTCA GAAGAAGCAT AGTAGCTTCT ACAGAAAATA AATGATAGAA GGCAAAAGAG AAACATGGCG
AGTATTCAC TCCAGTGTCT AGTCAAGAGA TTACAAGGGC CTGGCATGA GGACAACAGT AGAAATNGTT AAAAGTGTAC
TGGATTGCAA AATATTACTT TTGGGCCAGG GCGCCGNGG .ACACGCT ATTAATACCC AGCACTTNT GGAGGTGCAG
GGAGTTNCGA GTACCACTCC TGGGCCAACA CGCTGGAAA TCCTGTTGAA AAATATAAAA ATTAGCCGG CCGT

SEQ ID NO:1064: (Length of Sequence = 322 Nucleotides)

GAAAGCATTT GAACTAAGTN TGTA AAAATG GCAGATAATA ATTAACTT GGTAGCAAGA AACGCTTCT GAAATACTGG
GAACACTGAC TTGTTTCACT GTAACCTATC ACCTAGTGCT GTATCTGCCA TAGTGCTCAC AATTGCAACT TTATATCCAA
CATGGGTGTT CCATTTCTAT TTGGATAAAA TTTACTGGAA ATATACTAGC AANGAAAAAC TGGTCTTAAA ATGGCAAAAG
GCTCTGGCAC TAAATCACT GCTACTTAAC TTAGTTTACT AATTAACCTC CTTAATTATA GTTTTCCAA TCCGCATGCA
CG

SEQ ID NO:1065: (Length of Sequence = 297 Nucleotides)

CCCTGNCAAC TCCTGTCATG GACTGATGCT GGAACTGGG TCAGGGAGCT CCAGGAGGAA CCAGACAGGN TCCTGTTAGC
AGGCTCACCA CAAGTTCTAA AGGGCACCAG CCTTGAGAAG GGCAGTTGGG ATGTGGCCAA ATGTGAAGCC AGGTTTNGTG
GGATCCTGAC TGTCCAGGT TACAAGTCC TGGCCACTCT GTGAACCTTG GGCAAGTTAA CTCCAACCT CTTTACAAGT
TCCCTAATCT ATNAGGAAAC ANTITAGINAC ATGACCTTCA TGGGAATTTA TTTATGA

SEQ ID NO:1066: (Length of Sequence = 267 Nucleotides)

ACAATGGGAC TGTCAAGCA GCCAGTCCT CCTGACTGC TCCACAGGAA GAGCCATCAA CAAAGCCAAT CCTTGAGAT
AGGCTCTGAA ACCAGGATAG AGACTCCTC AATGGCTGCT GNTGGTTCCA CCATGTATCA TCCAGAGNAA TCACCCTGNG
TGGGCATAGG TGGGCTGGG AATCTAGGGC ACAGCAATTC CACACATCTT CACCTAGAAA CCTCCTTCT GGTGGGCT
GCATGGTTTC ATGCTGTAA ATCCCAG

SEQ ID NO:1067: (Length of Sequence = 220 Nucleotides)

AAAATGCAAT TGGTTTGTTA CTGAGTACTA TTCGTGGGAA GACAGCATCC TGNACTCCCT CTCTACAGAA TATTGGGAGT
AAAAATGAAT GTCATCCCG GTGGGAAATA TTATTGGGG TTGGAAGCAC AGAGCACAGG AAAAATTAG TNCAGGAAAC

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AGACACTAAG AGTGCACTGG GCAGGTCTGA CTGCAGGTGA TGCAACTTGC CAGCCGTGGT

SEQ ID NO:1068: (Length of Sequence = 412 Nucleotides)

TGGCCAGCAT CTGGGAACCT TGGGTGTGTG GACCAACTTC TTCCAACACG TGCGCACTGA TGGCCGGGGC CCCAGCCAGG
CCTGNCCTGGA AGGGTCTTCC CGCNCOCGAG GGACTGTAGG GGGTCTCTAG GAAGCATCAC ATCAAGGTCC TCAGGTITAGA
TNCAGENCAG CCCATTGACC CATTTNAGGG GACAGCTGGA GGAAGCCCG GAGTCCCTTG TTTCTTCAGC TGAG

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TGCTCATGA AGATAATTTA ATGCTAGACT GATTTCTGCA GAGTAAAATC TGGCATGINC TTCAGGAAGT TTTCTTTGTC
GCTGCATATG AACATTAGG TCTCCTCCAT TTACATACTC TATAACAAAG AACAACTGTC TTTCTGTCTG AAAGCAAGAA
TGCAGCCTAA CAAGGAAAGG ATGATTGGAT GCCTGCTCAA ACACATGCTT CTCGTCTGT ACCCAATCAA TATCCTCATC
ATCATTAACA AGCTCTTTT TCACAACITT CATTGCATAA ATACGATCTG TTTTTTTTAA TCGAACCAAC AGTACITTTG
CATAACTTCC TCTTCTATT ACCCGGAGCA AATCAAAATC CTGAAGACCT AGACTGGATG AAGCTTTGCA CTTTCCCTGG
NGTCATTGCC TC

SEQ ID NO:1070: (Length of Sequence = 358 Nucleotides)

GTGATTGTNC CACTGCACTC CAGGTTGGGT AATGCAGCGA GACTGCGTCT CAAAAAATAA ATAAAAATAA AAAAAAAAAA
AAAAAAAAAA AAAAAAAAAAG CACCACCGCA CTCCAGCCTG GGCAATAGAG TGAGAACCCTG TTTTCCAAAA AGAAAAATNT
TAAAAGANTG ATCTNGGCCA GCGTGGAGG CTCATGCTTG NAATCCCGAGC ACTTTGGGNG GCCAAGAACA GGTGGTTCAC
TTGAGENCAG GAGTTCGAGA CCAGCCTGGC CAACATAGCA AAACCCCAT CTNTACTAAA ATTACAAAAA GTTAAGTGGG
CATGGTGGTA CATGCCCTNG TAATCCAGT TACTTCCG

SEQ ID NO:1071: (Length of Sequence = 411 Nucleotides)

CTATTATGA ATTCTCGCAT TGGTTTCGAA AACTCAACAC AGTTAAATGA ACAGGAATIG AAGGTGCATG ATGGATGCGT
CCCTCATAGC ATTTAAATCT CTCCACTTG ATTAATAATT CCTAGTTCCT CTTCACTGAA TTGTTTAGAG TTTTINAGCA
GCCTCTGCCC TGATTAAAC AATTAGCAT CAAAGATCCC CTGTGAATG AGAAATCATT AATTGAGAAA CATGCAATGC
TCCTTAATTA CTTTTAGAAC AGTGAGAGAA CAAATAATCT CAGGTTCAG AGGGCCCTGC CTGCTCTGCA CCGTGAACCT
ATTTCTGTGA GCTGCTGGAA TAAAACTCAA GTAGGCAAAC ACTATTTGGG GAATATCAAT GCAAGCTTTC AGTAAACACA
CTGTAGGATT G

SEQ ID NO:1072: (Length of Sequence = 342 Nucleotides)

TCCCATTTTT ATAATTATIG GAACATGAAA CTGTATTCT ATGAACTCAA TGATTTTTTT CCATAAAATT ATATGCTAAG
AGAGTCACCA CAAACTATG AATTCTCTCC CGAATTATTT TTGCTTCTTT GGAGCACCAT AGTCTTTGTT CAAATCACAA
CATGAAACTG TTGCTGCAAT GCTAAAGATG TGAATCCACC ACTATCAATA CCGTCAGGGT AAAACCTGGA GCCACATGTT
ATTCAAGTTA TTTTGTAT CTAAATGATG ACATGAAAT AAAATAGTAA GCCAATATTA AATTTGTAGG CATAGTTGCC
CCACCTNAAA AGTGTTTACA AA

SEQ ID NO:1073: (Length of Sequence = 217 Nucleotides)

GTTTTCTGTC CTGGCTAGGA TAATGCAAGC NCTTTTCAGA TGANTCAGAA TCGAAGAAA TACGCTGGTA AAACAGGACC
TGATTTACCA GGNACTAAAC AATTACACTC CCATTTCCAT TGCTTTCAAT ATTTTCACAC GNTACACGAA CCTTTAAGAT
GGAAAGGGAA AGCGATTTTT TTTCAACAA GTGGGCCACC AGATGAACCA AATTAGA

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SEQ ID NO:1074: (Length of Sequence = 379 Nucleotides)

GGTTAAATTT TCATCGGAAT GTATAAGCTT ATTTATTAGT GTATTTAATG GTTCATCAAT TGATAAAACA GGTGTAGCAA
ATACATGCCT TCCCTTTTGGG GGATGGGCCT GGTTAATCTC CAAATTTGGCC GTTTGGAACA ACTCATCATT ACTGTACAAA
GAAGGTACCA CTGGGTGGA ACITTCACIT TTTAACAAAA CTGGTTCATA TTTCTCACIT GCATAGGAAA TGGTCAAACC
TTGAAGTGAA GCAGAGTGCA TATGAGAAGT AGGCGACACA TCAAAACTG GTACAGATGT AGAGTGCAGC ATGTTTTTAC
TTGAAGCAGA ATTTGATACA ATGAGGATGC AACCATTGTA GANCTAAATT TATCAACTT

SEQ ID NO:1075: (Length of Sequence = 345 Nucleotides)

ATTAAGTTGA CAGTCCAATC AGAAATATTT AAACAAAGTT TCACTACTTA AACACCATCT AAATATACTT TTTGTTATAT
TCCCAGCAGA AATTGATGGC AAGGAATCAT ATATCCATC AAAACCGTAT TTTTCCCCCT AAAAGGCAGT TTAGATGTC
TCATTCTAGG NTTTCCATCT CTCTCCTCCA CCATTCOAAT TCCCAGAGTA CCTCTACAAA TATCCCTGCT TACCACTAGA
NCTATTTGCT TTAACAATCT TTTGTGGGT AAGGAGATGC ATATGCCAAT GTGAAACTA TGGAGGGGGA CTCTGCCIT
CAAAGGCTGA CTAGAAACCA TTGGA

SEQ ID NO:1076: (Length of Sequence = 286 Nucleotides)

TTTTTTTGA GATGGAGTCT CGCTCTGTCG CCCAGTGTGG AGTGCAGTGG CATGATCTCG GCTCACTGCA AGCNCGCCCT
CCTGGGTTC TGCATATTC CTGCCTCACC CTCCCGAGTA GCTTGGACTA CAGGCGCCTG CACCCAGCC CAGCTAATTT
NTNMTGTG TGTTTTGGC AGAGACAGG TTTACCATG TTGGCCAGAA TGGTCTCTAT CTCTGACCT CGTGATCCAC
CCGCTTGGC CTCCAAGGT GTGGGATTA CAGGCGTAA TMACC

SEQ ID NO:1077: (Length of Sequence = 366 Nucleotides)

TCACATAGT CACATTTTAC CCATGAAACC TTCTAAAT ACCTTTTGCA TTNTTGCCT ATCCTTCTAC ATCATCATA
TTGTCAATT AAAGTCATT TTTTGGGTAA CATTTCAGAA ATTGGGATTC CTCTTACAAT TGCTATCAGA CAGAAGCCAA
TTATGATGTT GTCATTGCTT ACACATGGN AAATAACAAA ACTGCCAGCA TGACATTTGC ATATGACAGT CAACAGCCTG
AAAGAAATTC CCAGAAATGA TACTGGAGCA TTCAATTCAC CCTCTAGGAN CCAATGGAC TNGGAAGGAA GTAGAAGATG
GGGAATCCCT AAGCAGCAGT CAAAGTAGGC TGGCTTTTCA TAATTT

SEQ ID NO:1078: (Length of Sequence = 380 Nucleotides)

GTTTAAGTGC GAAGATTTTA TTAGGCGGTA CAATTCCAAG GTGGTAAGGG TGAAAGGAAA GGCGAAGGCA GGCAAATACA
TTATTGAGCT GAAACAACCT TTACATTCAA GGACAGCTC CAGACAAGCC ATGTAGAACC AGCATGCCTT GGGACTGTNT
GGATGGCAGG GAGACGAGT TCTATGCTGA CCCTTCATG CTTTCTSCCC CCTTTGGGA AAGTATGCCT CACGACCTC
TAACTCTCCC ACTTCTCTGG GGGCAGCACC TGACCCCTCC CGGCAACTNC TAGGCAAGAG CATCTGTTC CTTCAAATTT
YTCACCTGAG TCTGAGTCAG AGCATYCCAT CATCAGAGCC TCTGTCAAGG AGGCAGTGCT

SEQ ID NO:1079: (Length of Sequence = 439 Nucleotides)

CTTAAGTTAC TGAAATTGAA ACACCCCTTG TCCTTCTCGG CGGGGCTTC CTGGTCTGTC CTTTACTTGG CTTTTTCTC
TCCCGTCTTA GCTCACCCTT CTGTCAACC AGATTGAGT GCTATAGCTT GATGCAGGGA CCCAGTGAAG TTTCTCCGTT
AAAGATTGGG AGTCGTCGAA ATGTTTAGAT TCTTTTAGGA AAGGAATTAT TTTCCCCCT TTTACAGGT AGTAACTTCT
CCACAGAAGT GCCAATATGG CAAATTACA CAAGAAAACA GTATTGCAAT GNCACCATTA CATAAGGAAC ATTGAAGTGT
TAGAGGAGTG CTCTTCCAAA CAAACAAAA ATGTCTCTAG GTTTAGTCAG AGCTTTCACA AGGTAAATAAC CTTTCTGTAT
TNAATCAGG GTAACCCCTT TCTGTATTTG AGTGCACTG

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SEQ ID NO:1080: (Length of Sequence = 419 Nucleotides)

CTGAATCCC TGAAATAGG AAGTCTCAAT TAAAAATCA ATTTGTCATA GTCCACATAA AGATAATCAA TACATTTTGC
TCTCAGTCCT TGGGATGGTT TTTGTAAATA ATATTATCTT GACAAAAACA AACAGGAAGA TCCCACCCCC AACACATACC
ACATTCCAAT GTTACCTGGN ATTAAATAT ATACCAACAT GCATCTTTAG GTTACTCTGG TCCATGGTTT CCTCCAGTGG
CAATGGAATT TACAAAAATG TAAGACGTAA TAGATATATA ATTATCTTTT TNCCTAAATG AACTAGCCT TAAAACTGG
TACATAATGG TTCCTGGGT CANTGATCAA AATTATGGAN GTACACTTAA CCTATCTTCC ATTGAGTGGC TTAAATGGG
ACCTTAAACT GTGGACTCC

SEQ ID NO:1081: (Length of Sequence = 411 Nucleotides)

CAGCGTTTAA ACCAAGGCG CACTAAACCT CGTAAGCGCA TGANCAGATT TAAAGAGAAA GAAAACTCTG AGTGTGCCIT
TAGGGTCTTA CTTCCTAGTG ACCCTGTGCA GGAGGGGGG GATGAGTTTC CAGAGCATAG AACTCCTTCA GCAAGCATAC
TTGAGGAACC ACTGACAGAG CAAAATCATG CTGACTGCTT AGATTGAGCT GGGCCACGGT TAAACGTTTG TNATAAATCC
AGTGCCAGCA TTGGTGACAT GGAAAAGGAG CCAGGAATTC CCAGTTTGAC ACCACAGGCT GAGCTCCCTG AACCAGCTGT
GCGGTGAGAG AAGAAACGCC TTAGGNAGCC AAGCAAAGTG GCTTTTGAA TATACAGAAG AATATGATCA GATATTTGCT
CCCTAAGGAA A

SEQ ID NO:1082: (Length of Sequence = 350 Nucleotides)

CTGTGAGGGC ACAAGTGTAG GTATCTTINC AAGTTCTCTA GGTGATCTA GAATGCAGCA GGGTGTAGAT GCTCTGCCIT
AGGGGTAGAG AGGTGGGAAC ACTGACAGGT TCTGCAAAC ATCTCTGAAC AGCTGCTGGT GTCTTTTCT GTACTTCAAG
TTTCACGGCA CATCTGATAG CTGTCGAA AGGGAAGAGA GAATTACGTG GGCTAGGCTG GTTGAAGGT TTGNTAAGN
TTTGGCTTGA GCGACTTTAA CAGTTTAT TCAAAGTAAT TTGTGTTGT AGCCCCACTA AAGTAATTT GGGCCAGNAA
AGGTTCAAAA TACGGTTTTT CCTACTTAAG

SEQ ID NO:1083: (Length of Sequence = 430 Nucleotides)

GTGAAGTCCA CTGCTTATG GACAGCCCAT TTGCATGGG CCTGCGTGT GGTGCAGCC AGGGTATGTA AGGAAGGCTT
CANAGGAGCT GCTGCTGCCA CAGGTGGTCA CCAGGGCAGA GGTACACTG ACATACCTCC AGACCAGCCC GCTCCACTGT
GGACAGGGGC AAGTACATA CTGCTGTTT ACCATGGGT CAGGCAGAA CTTGTTTCAC GGGGTGCTTT GTGATGCCAA
ATGGATATAG GTGGGACGTG CTGGCAGCAG CGGCTCAGC GTCGAGCCAT CTCCCTCCC GTTCTGCTCC GGCTGCTG
TGGGCCTAAT GGTGGCACCG TTTAAGCANC TGCTGTGTC TCAGCCTGG GNCCTGAGG TTTCCATACA TGATCACTGG
TTCTTACCA AGGCCTTAAT TCCTNCCTGT

SEQ ID NO:1084: (Length of Sequence = 369 Nucleotides)

AATGGAAGAA GTGAAAAGA ACAACACAAA GAAATAAAG AAGTAACCTC TTTACCCAC TGAAATAATC TCTGAAAAG
ATATTAGCAA TCATGCAGCT TATAAATATC TAAAGGGCTA GAATTGAGGA ATTTATAAGA NTAAATTTTT TTTTCAACAC
ATAAAATACA ACATGGGAAA TAAGATGTTT TTTACTAACA GGCAACACT TGAGNGTCC TCTTCAAAGA CTACAGTGA
TGAAAGACCA GTTATCCAAA GGAAACGGT AGTAGAAATA TAAAGTTAGT CCCACACAAA ATTAAATGG TGCTCAATGC
AGATTATCTA TCATTANACC ATTTTAAAG GCAATTTNT ATTTAAAT

SEQ ID NO:1085: (Length of Sequence = 413 Nucleotides)

ATACCTTTNA GCTGGCATAA TTTAACGTC TAATTATCC TTAATCATAA GCTGTACGAT TCTATAAITA AAAAGTTAAT
GCCTTCTTAA TGTCTATNCT AGTAGAAGAA TGATGAGAAA ATAATAGTAT AGATTAGTTT TGGTCTCTAC TCATTTTGCC

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TTCTGATTAT ATTACAAC TC CAGCTGGTGA CAAGATGGCT GTGTAAATCT TGAAATCACT GAGCATT CAT TTTAGCTTCT
 CATTGAAAGG TAGATATTCA GTATGAATTG TAACTGGCA TTAAGGGAGA AAGTAGGNAT AATCAAAC TT GATCTGAGAA
 TTA CTGTGCTG GTGCATTTC TCAATGCATA GTAATATCCT TATGANGATG CAGATGCAAA AGTGGGTTTT GGAGGTGGAT
 AAGGAGGGCA GCT

SEQ ID NO:1086: (Length of Sequence = 277 Nucleotides)

TGGATAGCAT GAGGCAAATT GCCAGAAGAG AATTTCTTTC GCATCCTAGT AGAATAAATC CAAATTATCT TTGTGGTACT
 GAGGATGCTT GGTTTAGCAC AGTGTAAGT TGTAACACTT TAACAGGCTA TTAATTCACA GTCATAAT CAATGCTTGC
 CCGGAGTTTT GCTAGAAAAG GATGAGAAGG ATTAAGGTAA AAAAAAAAAA NAAAAAAAAA AAGATAAGGT TAACCAGATA
 CATCTTAAGA GCTGATTGCT CTTCATTCCT TAACTCG

SEQ ID NO:1087: (Length of Sequence = 360 Nucleotides)

TTTTTTTTTT TTTTTTTGAG ACATTGTCTC ACTGCGTCCG CCAGGCTGGA GTGCAGTGGT GCAATCTTGG CTCAGTGCAA
 CCTCTAAATC CCAGGTTCAC GCGATCCTCT CACCTCAGCC TCCGGAGGGC NTGGGATTAC AGGTGTGAGC CACCGCGCCC
 GGCAGCATT TTTTTTAAAG ATCTGTGATA GTGCATGTTG TGCTAGTTCT TTAATACAGA CTATATTGTA TTCCATGTCA
 GTTTTTTAAAG TTTATTTCCC TATTGATGGC ATTTAATTCC AACTTTTAGA TAAAAGGATG TACTGGACAT TTTTATAATT
 TTTTGGGGG ACCATGTAAG AGTTTTTCTA GGGGGAATTC

SEQ ID NO:1088: (Length of Sequence = 209 Nucleotides)

CTGGGACCAG CTGGAACAGA AGTGGTAAAG GATAACTAGC TACCTGCACC GCCAGAGATC AGGNTCAGGG TGAAGCTGGT
 TTCCAGCAG GCGAAGTGAA GGAAGTGGT TNGAAAGGAA GAGGAGGAGC AGGAGATGGT AGGTCCCTCG CCTNCTCCC
 NINCTACCTT GGAAATATAA GTGTCAGGTT CATACTTAAC CACCCCTT

SEQ ID NO:1089: (Length of Sequence = 409 Nucleotides)

TTTGTCTCAC AGCTACATCT TCAGAGGTGA GAACCATGCA TGACACAGAG AAGATGCTCA CTGATGGATT TAATGAGTCA
 AACATTGAAG AATCAATGAG TGCCGGAAT AAACAGGATA GGTGGCAGCA TAGCATGCCC TTAAGANCAT GGCTGTGGAT
 TCAATCCCA GACCAATCAC TGANTTTCAA GCCACTTGC CTCTGTGAGC CTCTGTTTTT TCATCTGTCA AGTGGCAATA
 ACAATAAATG GTACGTGCTT CATAGGGGCA CCTTGAGGAT TAAAAGAGAG GGTTCATAA AATCAAGTAC TGATTTCAA
 ACCTGGCACA TAGTAGGCAC TCAGCACATG GNCCTTATAT ACTTNTGGGC CAGCAGCGGC TGGGGCTCAT CCTCCCTGG
 CTGGGTCCA

SEQ ID NO:1090: (Length of Sequence = 337 Nucleotides)

GAACCTNTCC CCATTGGAGA GGATGAGGAT GATGATCTGG ACCAGGAGAC ATTCAGCATA TGTAAGGAGA GGATGAGGCC
 CGINAAAAAG GCACTGAAAC AGCTCGACAA ACCTGACAAG GGGCTCAACG TGCAAGANCA GCTGGAACAC ACCCGGAAT
 GCCTGCTGAA AATCGGAGAC CGGATAGCCG AGTGCCTTAA AGCCTACTCA GATCAGGAGC ACATCAAAC CTGGAGGAGG
 AACCTATGGA TTTTGTGTTT CAAGTTTACA GAATTTAATG CTCGAAAAC GCATAAGTTA TNCAAGATGG CTCATAAGNA
 AAGGTCTCAA GAAGAAG

SEQ ID NO:1091: (Length of Sequence = 411 Nucleotides)

CCACTACCAC AGGAAATCTC TATACCTTC TTGGCTTTTC CTTTTAATGT AATTTTCTTA AAAGCTTCAA GATAATTTTT
 AATCAGGCAT GCTGAAATCT ATCTAACCTA TTAGTCACTA ATTATATTCT TCAAGCCTAT ATATTAATGT TTCNCTGTT
 GTAAATTCAT GATCATAAAG TTTTGGACCT GGCCATCAAT ACTAAAGCAC TGATATTTAG TTTTAGGTGA TACTTGGGCA

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TAAATACAAA CACGGGATAT ATTTNGTCAT AGAAAAAAT GTGTTACTGC ATTATTTTGC ACTTCTGAAG GACTGCAAAC
ATTTTTCAG CACAATAAGC AAATTCCTCT TTCAAAAAGG NATACTTTNG CACATATGIN AGGTTTGGAA AATGACTAGG
NCCCTAGGGA G

SEQ ID NO:1092: (Length of Sequence = 349 Nucleotides)

AAAGAAAATG CCTTGGGAAG ACAGATGCAT TTTTNCACAC TGGTGTGCA ATTGCTCAAA TATTTINAGG ATGAATATCC
TCACCTTGGG GGCAAGTTTT TAAGAGTGAA TTTGAATTAC TGGAGCAGTG AACAATTATT TAGAGTCTGG TATAAGTGAA
GAAAAGAATC ATGACCNGTA AGCTGTCTTG NAGGTACCAG CAAACTGNCT CTAAAATTTA TATGGAAAGG CAAAGGGGTT
AGAATAGCCA ACATAATACT GNAGAAGTTG GAAGACTCAC ACTATCCAAT TTCAAGGTTT ACTGTAAAGC TACAGTAACC
AAGGCAATGT GGCACGTGGT AAAAAGTAA

SEQ ID NO:1093: (Length of Sequence = 400 Nucleotides)

GGACCTTGTT TTACATCTG GATTTTCCTT TTTACTTTCC TAATGATGTA ATTTAACINC TTCTGTATT TNCATATTT
CCTATAAAT GGTAGTTAGA TCTAAAAGCT TGATTTACTT ATTTAGATT TCTAGTCAAG GGTACTCAAT AGATTGTATT
TCCTTTGGC TCACACGGAG GTGCATAATG TCTGCCTGGC CTGTAGTGAT GCTAAGGTTG ATCAITCTGT TCAGGTGGCA
TCAGTCTGTG ATAACITCCT GTAAGAATCG TTCAITTAACC TTTCACTTAA TGGNTCCATT CATTCATGAT CTTTAACIGA
ATCCCTGTTA TTTCAITTAGG GAATAGCAA ATAATGATT TCTAATCTG TNATTCCTTT CACATTTATT AACTGTAATT

SEQ ID NO:1094: (Length of Sequence = 414 Nucleotides)

GTCAGTNTTC CATAACTGTT TCCTGCTGAC AAAGGGGCG TGGTGATGGT TCINTGGGTC TTGGCCTCTT GCTAGCTGTC
ACAGCAGGAG GGTTGGCTTN TGGATTGGTG AAAGTGGTAT CCAGCCAGGT CCAAGAGAGA CAGGGGCGG GTTTTNCCAA
TGCCAAATAT ACTTCAGCAG TAGAAGCCAC AAGATTACAT TATTAAATTG TCCCAAGAGT CCCCCAGTGC AAACCCGAGC
TGAACGCCAT TTAGTTATAT NCTGGTGGT TTTCTTCTG CAGGAACTCA AACCAAGGTT TCTTATGTGT GCTTGAGTTG
GGGGCCAGAG TGACAACCTG TAGAAAACCTA TGTATTCC CAGCTANGAG AACAGAGGGG AGGGGTACAT GATAGTAGGG
AGTCAAGTTT ACAA

SEQ ID NO:1095: (Length of Sequence = 387 Nucleotides)

GATCTGGCAA CCAATTATGT AAATAGTCAT ATGAATCCTT CAGAATGGAT AACACAGCTT TNCCTGACTGG TGTGAAATAG
TTTTCAGGIG CTCATTCCTT ACTTCATTAG CTTATCTTAT ATCATTAGCT TATCCTCCAT TCAGGTATTA CAGATCTTTT
TTTCTGATA AATATGGCAG TTTAGGGAAA TAAACTATGG CATAATATGC TAGGCCATTC TTCTAGGCCA CGCTTCTTIG
ATTGTAACCT TAAACCTTT ATCAGAACCT AAACAACCTT TCAAAAGATC TATACATATT TNNATCCAAT GTTTAAGGCT
ATGAGTAATT CATTATGGTC ACTCTTCATT TTNTTCACCT GATAATGATC TCGNCAAAA TGTTGAG

SEQ ID NO:1096: (Length of Sequence = 416 Nucleotides)

AACCTAAAGC TTTAGAATGA TTGAGGTAGC TCAGAGCAAA AACCAAAAGG AAAGGTGATA TGTAGATGTC TGGGCACTCA
CATCATAGGT TTGGATAGCT AGTTTAGGAG TAAGTGAAAC ATTTTAGAAG AGCATTATTG TTAACCTTGA CAATAGGATG
GGAGATTCTT AACCCCCCTT GTAAATATGCA CCGATTGATT CTAAGTTAAA ATACACCACA GTGACAGTGA TATCATCCCT
GTACATCCTC GCCAAGTCT CTGSCAATGT CAGCATGGCC GNCAGCCGCT CTGCCTCCAT CCCCCATAC TCAITGTTCC
CGATGGCATG TCTGATCAGC CGGTGGCTG CATTTTGGTC AGCCTCGTGG AGCCCGCTGG CTTTCTCTG CAGCAGCAGG
CTCTGCAATG AGNCCC

SEQ ID NO:1097: (Length of Sequence = 406 Nucleotides)

CTGACCTCGT GATCCGCCCA CCTCGGCCTC CCGAAATGCT GGGATTACAG GCGTGAACCA CTGCGCCCGG CATGATTGGC
ATTTTGGGCT AAATAGTTTC TGTCCACAGG ACCGTCCTGT GCAGTGCAGG TCTTTTAGCA TCCTGGCCAC TCATAGTGCC
CGTGGTTCTC AGTAGAAGCT GTAGAGGATG TTGGGAAATT GGGGTGGGT GGTACAGTG CCTGGCATCT GTCTCAGGCT
AAGGCTTNG GAGGCTCAAG TGCAGAGTCG TATCTGGATG CCAGCAACAC CCTGTTGAGA AACTTTCTAC TATGGTATGC
TCATCATTCT CTGAAGATGT CAGGCGCTGT TTGTTGTIT GCTGTTTCT CTCACPTTG CCTTATAATC AGTTCTTCCT
TGTTGG

SEQ ID NO:1098: (Length of Sequence = 326 Nucleotides)

GGCCCGCCCG CCTCGGCCTC CCAAAGTGCT GGGATTACAG GCATGAGCCA CCGCGCCCGG CCATGTAACA ACTTTTATAA
AGTTATGATG TGATGAGTTT TGGTGTAAAG TTTTCCCTC CTCTACCTAA AACCCITCAT GCCTTCCCAT TGCTCTTAGA
AAACACTCCC CAATCTGAAA CATGACCAIT TTTGTTTTN ACACCCAGAT TGCTCCAGAC TTGGTCAGTT GGTGTCCCTC
CAAGCTGGTG CTGGTGTCTT TCCGNCATNC CCTATTAGT TTTTGAGCAC CTGGACCACT AAGGTGTTC GTCTCACTTT
GCACIT

SEQ ID NO:1099: (Length of Sequence = 342 Nucleotides)

GAAAACGAAC AAGTTTCAGC AGTCTAGCCT TTGGATGACC TATTTGAAAA CCACTGAAAG TCGTGGAGGA ATGGGCAAGA
ACCACCTCAT GATTCTNCAG GCCATTGCTA ACGAACAGCT CATGCTACA ACCAGTCCAG AGGTTTTATT CCCTCTACTC
CGAGCAATGA AATAGACCTG AGTTATGCTT CCTTTCATTT AATTTCTGCA GATAAATAGT TTCCTGAGCA ATGGATGCTA
TGCTTGGATA CCAGTCTCCA CTTTGACGCG CGGAACCTGC TTGGGNCAC AGTTACAGAA AAAATGTAAA CTCAGAGTGA
TCCTTGTTGA TATTGCTATA GA

SEQ ID NO:1100: (Length of Sequence = 301 Nucleotides)

ATCGCTTGAG CCCAGGAGTT CGAGACCAGC CTGGGCAATG TGACAAAACC CAATCTCTAC AAAAAATACA AAAGANTTAG
TCAGGTATGG TGGCGCATGA CTGCAGTCTC AGCTACTTGG TAGGCTGAGG TAAAAGGNTC ACCTGAGCCC GGAAGTAGA
GGCAGAGTGA GCCATCATTG TGTGCCACTG GACTCCAGCA TAGGGAAGGS GACTGAGACC GTCTCAAAAA AATTAAATAG
AAAGTCTTCT TTTTTTAAAA TNCCTGCAATT CATGAGAAAA CTGCACTCAC ACATAGTGTG T

SEQ ID NO:1101: (Length of Sequence = 300 Nucleotides)

TTAAGTCAAA GGCTAGAAAT GATTAAACTT AGTGAAGAAG ACATGTCAAA AGCGAGAGA GGCCAAAAGC TAGGCCTCTT
ATGCCTAACA GTCAGAAATG CAAAAGNAAA ATTATTGAAG GAAATTAAAA GTGAAACAAC CTTATTGCTG ATATGCAGAC
AGTTTTAATA TTCTGGATGG AAGATCAAAC CAGCCACATT TCCTTAAGTC AAAGCCTAAT CCAGAACAAA ATCCTAACTC
TCTTCAATTC TTACGANGGC TGAGAGAGGT AAGGAAGTTG CAGAAAAGTT TTGAACTAGC

SEQ ID NO:1102: (Length of Sequence = 174 Nucleotides)

GAGATCGAGA CCATCCTGGC TAACACGGTG AAACCCCTC TCTACTAAAA ATCCAAAAAA ATTAGCCGGG CGTTGCGGCT
GGCGCTTGIN GTCCAGNTA CTCGGAGGC TGAGGAGGGA GAATAGCGTG AACCTGNGN GGCGGNTTG CAGTGAGCCC
GAGATCGGCG CACT

SEQ ID NO:1103: (Length of Sequence = 360 Nucleotides)

ACAAGGCTCT GCTATGTGC CCAAGCTGT CTCAAATCC TGGTCTCAAG CAATCCTTCT GCCCTGGCCC TCCCAAAGTT
CTGGGTATTA CAGGTGTGAG CCAGCACTCC TGGCCCATCA CAGTCTTAAA ACCAAAAGTT CTGTGTCCGA GGAAAACAG

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GAGTGATTGG TCACTCTATT TATGACTCAT AGCACTTACA GGCTACTTCG GCAGGGACTT NGGGTACCCC TGTTCITGGA
TGGCACATCA TTATCAGCAA CAGGAACAGT TTCTCTGAGC CCTGGGCCCT GGAGAATCTC TAGCTTAGCT ATTTTAGACT
TGGGGTCAAA GAAGAGAGGC TCTTTGCCAA CTCAGCAACA

SEQ ID NO:1104: (Length of Sequence = 400 Nucleotides)

GGAAGCAAGA CAAAAAGGA CAGAAAAGCT GGTTTAGGTC TTCAGTATGT TTATTTGTCC CTCACATAGC GGCTTGATCT
GTCTGCCTGT GTGTTACAT AGTTAACCAG AAACGCTAGG AGGAAGTTGT ACCAGTGGGA TACCTCCTTA GGTGCCAAG
TTTTATTTTG AGAAATAATA TTACTTTCTT CTCTGAAAT AAAATAATAA TAATANGANT GAAACCCCCA AACCACAGTG
TGAGTCTCAG GTTAGCATTT GAAAACATCT CCAGAGACAT TGTTATTCTT CAGGAGGTTT CCTGACTCC TTAAATGTGG
CTGATGTTTC ATGTTAATT TATTTANITT TAATAAGGTA TGAGCAATCG AAGGGGCTGA TCATCTGAGG TTTTGTACCT

SEQ ID NO:1105: (Length of Sequence = 380 Nucleotides)

CCCAGTGCAG AGGGTGACCA AGCCTGGGAA GGCCCCAGGG GTCCAACACC AAAATTAAAG GTTTATTATA CACAAGAGGA
CGTTCTGTCC CTCANAGTGG CTGGCCACCC TCCCCACTCT GGCCAAGGTC CTGCACAGAG GTTTGTCTC AAGGGTGACC
CTTCTTGGCC GCCCAGAGCT AGACCTCCGG CGGAGAGGCA CGCAGTCCAT GCTGCTGGCA CAAGTCACTT GGCAGCTTNC
TCAGCCACCG NTTTGGCATC TTGTCTTNA GGTAGCGGCC TTNTTGCCA TTCAGACTTG AGTTCAGCC ACTCATAGAA
TGGGACGTCC ACTATCAGGA AGNCTGCAGC CACTTATGTG TCGCCGGGCC AGAACAAAGG

SEQ ID NO:1106: (Length of Sequence = 334 Nucleotides)

TGTATCTNNT TGANITCTAA ACCCTTGCTT TCCCCACTGC AAATGTGTTT GGCTAGAGAG CAGGCTATTA AGACATTCTA
GCCAAGCCAA TTTCTTGAGA GTNCTGCAGG TACCGGTGT TGCTGGAGCC CAGCATCTGC TCAGAGGAAG GCAGAGAGAC
CCAGAGGAAC CCAGAATGAG ACACCTCATTT TTGCATCTC AGTTTCCAAA TTAATTTTNT AGCTCCTGGT TAGGACCCGA
NTTNCAGAGA CCAGGCAGCT NTCCAACAAG AATGCTGACA GGTTTCATGT TCCTCTAGGG TAGCTGCTGN CTAAAGAATA
TTTGATTTTT TGGG

SEQ ID NO:1107: (Length of Sequence = 346 Nucleotides)

CTCCTTTAG TTTGAGTCAA TATCTGAGAA AAAAGAATG GAGTAAAGC ACAGAAAGCA AAACCTAGCT TAGAAAATAT
TTCCTAATTC AAAAAATGAA CAAGTCAGAT TCTGTAAAGA TATCCAGTGA AATCTTGAAG AAATATTGTA TTGATTATTA
ATTAANCTGA TTGGAAAGTG ATCTTGGGTT CACAATGAGG TTGTTGAACA AGTAGCATTT TCATACAATT GCAAACCAAT
TCAATGTTTT TNCATACACT GTTTACATTT CTTTNCAAAA TTTGATTCTT TCTTCGTGAT CCTAGTCAAA TTCTGCCTTC
TCAGTAAATC TTTATCAAGT TTGCAG

SEQ ID NO:1108: (Length of Sequence = 410 Nucleotides)

TCCTGGCGAC GTGGTCCCGG TAGGAGACTT AGACCTGAGC TGGATCTGTT GACCCCAAAT TGTGCTTTTC CCACCAAGAA
GAAAGACAGG GAGAGAAACA TTAGTACAAG TNCTGAACTA AAATATAGCA GAGAAGAAAC ATAATCTCTG AAATCACACA
GCTATTCGGT TTCAAAGCGT TCCTAGCGCC CAGCTCTCTT AACTCCTGGC CAGTGTCTT GACATTTATG TAATACATAA
AGACITTTGTT TCCGCTGGTG TGTGCTGTG GGAAGCCTCT GACTCACCTC CGTGCTCCAG TAGCACCTG TGCAAGCCTT
CCAATGTCGN CCTTATTGCG TGGCGCGGAA GATAATAGTT TGGATTNCTC TGCAAGTCAG ATAATAGCTG TATCCACTTA
CTTGGCACAT

SEQ ID NO:1109: (Length of Sequence = 352 Nucleotides)

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CGCTCGTNTG TCCACACAA ATGTTTAAGA AGTCACTGCA ATGTACTCCC CGGCTCTGAT GAAAAGAAGC CCCTGGCACA
 AAAGATTCCA GTGCCCTGA AGAGGCTCCC TTCTCTCTGT GGGCTCTCCT AGAAAACCAG CGGGACGGCC TCCCTGCTGA
 TACCGTCTAT AACCTTAGGG GGGCCTGGG CAGGCAAACT CATCTCGGTG ATGGCTGTAG ATGCTAACAC TGGCCAATTC
 AATGNCACAN CTACTGGTTA CCCCTTTTGA GGGGCATTTT TCCAGACAGA AGGCCCCCTG AAGCCTAGGT AGGGCAGGNT
 CAGAGATACA CCCGTNITTT TCTCGAAGGC TT

SEQ ID NO:1110: (Length of Sequence = 218 Nucleotides)

GTTTNTTCA TTTATTNCT CCCATAAAA CAGTATGTAC AAGGGTTTGA TTCAGGGGAG AGAAAGGATA TATGAAGACA
 CATCTTCCC TCTTCTATTC TCTTACCTGG TTAGAAATAA ATAGGCATAT AGTCNGTIT ATTATGGGCA GGAAGGTAGG
 TAAAGATCAC CTAAGTNCIT ATGGCGTGT GCGTTTGGCA CATGGAGAAT GAGTTTTT

SEQ ID NO:1111: (Length of Sequence = 211 Nucleotides)

TTTGCTTTAT GAAGAAGCTG GCCTAGGTAG GGTACAAAT GGGTTTTACT GAACITAAAC AGCTAATTGC TACATCTCTG
 AAAATAATCA GAATAGAAAA ATAGATGGAA AAATTTCAAA CCCACTGTAA GAGACTAACA TAAATCCAAT TCCAAAAGCT
 GTTAATCATA CCATCTAAAA AGAAACTGT CGACTAATCA TGTGTTTACA A

SEQ ID NO:1112: (Length of Sequence = 360 Nucleotides)

CCCTATAATA GTCCCGTGAA TAGGGCTAGC AGTGGGATTT TTGTGTATA GGCGAGGAAA TAAACACTCC TTTTGCTGAG
 ACTAAAGAGC CAGGTTGGG TCTCTGGACA CATAGTGCAA TCAAGGGAGG CTTAAGACAG CAGAGGCCCT CAGAGAAGAC
 GTTCATTCTC CCAGCTACTT GCTAAGCAG TNCCTGTGA TCTGGGCAGT CCTGGGCACA CCAGTGGTGA AAATACATGG
 TCTGCTGTC CTGCTGGAG CTTCTATTTT CTTNATGGGA GAATGCTGCT CCATTTTGT ATTGGAGGAA CTTTTTGCAA
 GCAAGCCCTN TTGGGGGAAA AATGGCGGGC TAGAAACCTG

SEQ ID NO:1113: (Length of Sequence = 448 Nucleotides)

GCGGGTACTG CGTAGTGAT TAGAGTTTTT NCCCTGCCG AGGTGGGATA CACGGTAGCA TCATGGTCCA GGAGGTACAG
 AAACATTCTG TACACACCTT TGINTCAGG TCGTTGAAGA GGACCCATGA CATGTTTGTA GCTGATAATG GAAAACCTGT
 GCCTTTAGAT GAAGAGAGTC ACAAACGAAA AATGGCAATC AAGCTTGGTA ATGAGTATGG TCCTGINTG CATATGCCTA
 CTTCAAAGA AAATCTTAAA GAGAAGGGTC CTCAGANTGC AACGGGATTC ATATGTTTAT AAACAGTACC CTGCCAATCA
 AGGACAAGAA GTTGAATACT TTGTGGCAGG TACACATCCA TACCCACCAG GACCTGGGGT TNNTTTTGAC AGCAGATACT
 AAGTTCNGA GGATGCCAG TGATCAGNTG CACAGTCTTA GCGGTGGC

SEQ ID NO:1114: (Length of Sequence = 268 Nucleotides)

GGCCGCCAGG TGGTGCCATG NCTTNTGNT CTGTGCGTCG GCGATGTGG TCATCAGCCT GAGACCCAGA TAGGCTGAAC
 CCCGACTGAT GTAGGTTGCG CACAGGAGGG ACGGAGATCT TGCTGGGCA GGACGCGCGG GCCGGAGCCG CACTCCCTGG
 CTTGGCAGGC ACCATCACCT CGTGGACGGG CCCGNTATAC AGCCACGGG GCACACCGTG GNTTCTNCGN CAGCCTGTG
 CGAGCTTTGA TCCTCTTGTA GACAAAGT

SEQ ID NO:1115: (Length of Sequence = 342 Nucleotides)

ATCAGTGCCT TCTTCAGCTC TATCTGGGAC ACCATCTTGA CCAAACACCA AGAAGGCATC TACAACACCA TCTGCCTGNN
 AGTCCCTCTG GGCCTGCCAC TCTTGGTGAT CATCACACTC CTCTTCATCT GTTGCCATTG CTGCTGGAGC CCACCAGGCA
 AGAGGGGCCA GCAGCCAGAG AAGAAAAAGA AGAAGAAGAA GAAGAAGGAT GAAGAAGACC TCTGGTTCTC TGCTCAACCC

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AAGCTTTCTC CAGATGGAGA AGAGACCATC ACTGCCGTGT TAGTTAGGCA GGAANGCAGA GGTGTTTCTT TCTGGGGCT
AAAGNCTCCT TCTGACCACA CA

SEQ ID NO:1116: (Length of Sequence = 416 Nucleotides)

CACCTTTGGG AGGTAGGGAT CATAGTTCCA CTTCATTGAT GAGGAAACT GTAGTGCAGA GATGGCATAC ACTGTCCAAG
AACATGGTGG TGGATGGAAC CCAAACCCCA ACTTTTGCTC CCATGINCTC TGTCCACTGG CTATGGCTCT TGCCCCGTG
TACAGATACA GGCTCTGGAC AAGTTCACCA AATCCCTTAG GCCTCAGCCC CCTCATCTGC AGAATAGTGG CTGGATTCC
ACCATCTTCA AGGTCCCTGC CAGCTTINAT TTATTAAAT TTGGATTAT TAAGCAGGAA AAAAAGTAAT GGGAGTTTGT
GGGTACCAAT GGATTAAAGG GGGTNAATC TGGNGGCTNG TGAGTAAAT TAGGGTCCC AAATGG

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AAGGACCGGG ATTCTGATGA AGCOGTGTTT CTCCTGCCT GAAGTTTCCC TTTGGAGTTC CAAAGTAAAG GACACATAAG
CAACACTTCC AAAACAAGG GAACAAGGTG GTTTATTGTA AAAACAGGAA ATGGTGCAAT TCATTGAGAA CTATTTTAAT
GCAGCTATGA AAAGGGAAAA AAGTGCCAG TTCTTGATT CTAGATACT GAAGAGGACG TAGCATTICA TTATCAAT
ATAAGGAAAA TTATTCACCA TTTTGAAGCT CACCTAGAC TATGAAAT ATATTCACTG CAGAGCAAT ACTTCTGTCA
TTACCTGAAG TGATCAGTAT CTATCTTCT TGTATAGCA TGATCTCTC AAAAAGGCCT CCACTCCTTT CCTCACATC
TGTTGTCATC ATGATT

SEQ ID NO:1118: (Length of Sequence = 379 Nucleotides)

GACAGCAGCG TGTCAGGGC GGCTGTGGAG GTGTGCGGA AGCTGAAGGA CCTAACTGC CCCTTCTCG AGGGTCTGTA
TATCAGAG CCAAGACAA TTCAGGAAT GCTGTGAGC CCTCAGAGT ACCGCTGGA GATCTAGAG TGGATGTGTA
CCCGGTCTG GCCCTACTG CAGGACAGGT TCAGCTCACT GAAAGGGGTC CCAACAGAGG TGAAGATCCA AGAAATGACG
AAGCTGGGCC ACAGCTGAT GCTGTGTGCG CCAGATGACC AGGAGCTCT CAAGGGCTGT GCCTGCGGCC CAGAAGCAAG
CTACACTTCA TGGACCAGTT GCTCGATACC ATCCGGAGGC CTGACCAATTG GGTGCTCCA

SEQ ID NO:1119: (Length of Sequence = 233 Nucleotides)

CAATATTCAA GAGTCTTTAT TGAAGACTTG AGATGGGACT TCCAACCTAG AGGATGTGGG AATCCAGCT CAAATGATAC
AGGATAAAT GGGATGGGCT AGGATGGACA GGCTGTGGAT ATGGGAGTCA TGGGTCAAAG TCTTATCCA GATGGCTCCA
GGTACAGTGG GCTTCTGGG CTGGAAGCTG GGTCTCCCC ACTTCATTCT GCTCAAAGCT TCTTGAAGGA GCT

SEQ ID NO:1120: (Length of Sequence = 325 Nucleotides)

GAAAAACAA CCATACCTT NCTTTTGAGG AAAACTTACA AACTTTATAA AGAATAAACA TGAATCINCT TAGAAAGTTC
CAAGATAACA TACACAATG ATCACCCTCT TCATATATAG GCACCACACA CATAAAGATG TAGCCTAAAT CACAATCACT
TCTACACAGG GATGGAGATA GGAATTTACA TTCTTGACTT CATTAAGTCT CTAATTGGC AAAACCTCC AAGCCTTTTA
TACACATGCT GGTGTAGGC CAGATCTCAC TCATTCTTAT AATTGTGCAA ATAATATGGA GACCAAAGG GCAGGGTTTT
CAATT

SEQ ID NO:1121: (Length of Sequence = 161 Nucleotides)

ATTAGTATTT TTGCTGTAT GTCTAGCAC TGTTCAACAA CAAATTTTNC TAGTCTTGT TAATTTINAT TTGTATACA
ATGGAAGCAC AATGTTATAA GGAAAGGTAA TTTTAAGCTA ACAACCACTG CACAGCCTCA GGTTTTAAAT TACAACCACA
G

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SEQ ID NO:1122: (Length of Sequence = 181 Nucleotides)

CATCTTTTTC CATCAAAGTA CTACCAAGTA AAGAAITTTAA AAATTACTTG TCTAGTCATG ATATATTTTC CTNCTGCTGC
 TGAAAAATCC CTGCTTTATT ATTTCAATG CTTTATCAT TCATTTGATG ACACTGACAG CAACTTGCTG AACAAGTTTA
 AGAATAGCTG ATATTTACTG A

SEQ ID NO:1123: (Length of Sequence = 174 Nucleotides)

CCCTAGAGTT AAATTTCAAC CATGAAACAT CAGCCACATG TCATATCAAT TCAAGTGTGT AACATTGATA TAATCGGGTA
 CACCACAGCA GCACTGACAG AAACAGAAAT GATTGAGAGA AAGCCAATTA AACAGCCAG GGGATAAAGC AGATCTGTAT
 GACATTAGCT TTTT

SEQ ID NO:1124: (Length of Sequence = 232 Nucleotides)

CTTTTAGCAG AGACGGGGTT TCACCATGTT GGGCAGGATG GTCTCTTGAC CTGCTGATCC ACCCGCCTCG GCCTCTCCAA
 GTGCTGAGAT TACAGGCATG AGCCACGCG CCTGGCCAG GGAAGGCATT TTNAAGAAA TAATAGTTGA ATTGAGATCT
 GATAAAGAA GTAGGAGCAA AATNGGGGG GTGCAGTTTT CCAAGAAGAG AAGACAGTAC ATATAAAGGG CT

SEQ ID NO:1125: (Length of Sequence = 233 Nucleotides)

GATACTATGG GTTCAGTGAC ATAGAGACAC AATTGAATTA GCAATGAGCT TCACTCAGGA GCCAGAGAAT GGGTTTNT
 CTAAGAGATG TTTTAAGTAA CATTTAAATG GCACTGCTGA TTGATACCAG CATCAGGAAG CTGAGGACAA GAGCTCTCTG
 AGAAGGAAGT TGCCATATTA CAGAAGTGAG GTGACCAAGC ACTTNTTGTA GGTCTGTACA TTTAGACATT AAT

SEQ ID NO:1126: (Length of Sequence = 258 Nucleotides)

TTTTTTTTTT TCCTAGGGGC CGCAGACGG CTAATTTATT ATAATTCCTC CGCCGAGTT GCCCTCTGGC GCCA...STGGC
 AGAACGGAGC GCCCGGGATG CAGGAGGAGA GCCTGCAGGG CTCCTTGGGT AGAACTGCAC TTCAGCAATA ATGGGAACGG
 GGGCAGCGTT CCAGCCTCGG TTTCTATTTA TAATGAGAC ATGGAAAAA TACTGCTGGA CGCAGAGCAT GAGTCTGGAC
 GGATTAGCTC CAAGAGCTCT CACT

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GTGTGAATAG GCAAGCACTT TGTGTGTGT ACTAAGGAAC TCAAAATGAT AGGCTTTTTG TCACCATGTG CTTCCAGNT
 CTCTGTGCA TGAGCAGAGA TAGAGGATCT TGACAAACA ATTAAATGCT CTAGCCATAA GTAGTGCAAG TTTCCNTTGC
 TTGAAATTTA CTGCTGATAG CCACTGGNC ACACCTTACT TCCAGAGGCT AGGAAGTACA GTTTTCCAC AGTCTAAGAA
 TGAAAGAGNA TTAACCACAG TAATGCATAG CACTCATACC ATGGATGACT GGATAATTTT AAAAGAATGG GAATATGCAA
 G

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ACAGCTCAAT GACTTATCAC AAAGCAAAGC CCCAAGAAGT CACCACCCAG CTCCAGAAAT AACACATTGA AAAGCTAGAA
 AAATCTCAAA TTGACATCCT AACACCACAA CTAAGGNTC TAGAGAACCA AGAGTAAACA AACCACAAAG CTAGCAGAAG
 ACAAGAAATA ACCAAGCTCA GAGCAGAACT GAAGGCAATA AAGACACAAA AAACCTTTAA AAATAGTCAA TGAATCCAGG
 AGCTGTTTTT TTGAAAAA

SEQ ID NO:1129: (Length of Sequence = 163 Nucleotides)

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CAGTGGTACA GCAGCAGCAG ACACGCATCG CAGAGCTGGA GAAGACGTCA GCTGAACACA AACACCAGCT GCGGAGAGAGA
AGCAAGACAT CCANCTGCTA AAGGCATACA TGCATGCAAT CCGCAGTGT CACCCCAACC TTCAGAACCT GGAGGAGACA
ATT

SEQ ID NO:1130: (Length of Sequence = 382 Nucleotides)

TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT TTTTACGTG TCAAACAGCA ATGTTTAGTT GTACAACACA TAAAGTCTAG
CAACAATTAC AGGNCCAGTT TGAGTGTCTG TTTGCTTGTT TTCAATTGGG AAATTAACT GTAATGTCAC CGTAAGATTG
GCTGGGACTG GTAACATTTA AGAAACGGGT TGTCCTTGA TCCCTAGGC GTGGGCTCT TGCTCCATCA GGACTTGGTT
GTAGATGAAT GGGCCACAAG TCACCAGCCT TTGAGCAAGT TGTGTCCAGG TGGAGACAGG AAGAGGGTGG GCAAAGGGGA
ATTCTATAAA GACACAGTGT NTGGGGCAGT GGCAGTCAAC ATTCGCAAAC ATTCATGCAT CT

SEQ ID NO:1131: (Length of Sequence = 406 Nucleotides)

ATGCTAATTC AGGCTCCACA GATAGTNCIG GTGATGGGGT TACATTTCCA TTTAAACCAG AATCCTGGAA GCCTACTGAT
ACTGAAGGTA AGAAGCAGTA TGACAGGGAG TTTCTNCTGG ACTTCCAGTT CATGCCTGCC TGTATACAAA AACCAGAGGG
CCTGCCTCCT ATCAGTNATG TGGTCTTGA CAAGATCAAC CAACCCAAAT TGCCAATGCG AACTCTGGNT CCTCGAATTT
TGCTTCGAGG ACCAGACTTT ACACCAGCCT TTNCTGATTT TGAAGGCAG ACACCTGGTG GAAGAGGCGT ACCTTTTTTG
AATGTTGGGT CACGAAGATC TCAACCTGEN CAAAGAAGAG AACCCAGAAA GATCATCACA GTTCTGTAAA AGAAGGTGTA
CACCTG

SEQ ID NO:1132: (Length of Sequence = 400 Nucleotides)

ATTTTGGTT ACTTCAGGCA GGAGGGTAGA CATAGCATT ATCTGGATTG GATGTAGCCA CAGGATTAGA ATTGTGGGT
CATAAAATAT GTACATGTT AGCTTTAGTA GATCTTGCT AGAGTTTAAA AAATTAAAAA TTAAAATATT TTTTAAATTA
CAATAAATTC AGCTAATTTT AATTTTAGAT AATTTTTATA ATGTAGTTGA TCTTGGTTTT AACCAGAGCA TGTCGCTGGA
TTTNTCTCCC CAATCGAACA CAGTAGAGAG AGAAGGTGGC GGGTCTTAG TGATACCATG CACTTTTTTT TAGAACTTCA
GTCTGTATC CCTCATTTA CAATGTATGA TGAAAAATAC TAAAGAAGGG ATNGTGGTGG TGGTGAGGGA GGCAGGAGAG

SEQ ID NO:1133: (Length of Sequence = 347 Nucleotides)

CCCAGGGCGC GGCATCCATG GACGAGCTCA TCCAGCAGAG CCAGTGAAC CTCCAGCAGC AGGAGCAGCA CTGCTGGCG
CTCAGACAGG AGCAAGTGAC AGGGCCGTG GCCCAGCGG TGGAGCAGCA GATGCAGAAG CTCTGAGG AGACCCAGCT
AGACATGAAC GATTTTAAAC ACCTCCTGCA GGCATCATC GACACGTGCA CCAAGGACGC CATCTCGGCC GGAAGAACT
GGNTGTTTCA CAATGCCAAG TCCCGCGCG ACTGTGAGCT GATGGCCGGN CACCTCCGGA ACGCATCAC GGCCTNATGG
GGCACACTTC GAGCTGCGGC TGCACCT

SEQ ID NO:1134: (Length of Sequence = 389 Nucleotides)

GGTCCAGGCC TGCAAGACTT GCCTAGTGAG AAGATATAGG AATGGGAACC CAGGTAACAG TCTGGCCACT TTNCCATAGG
GCTGCTGCAG TATGCCCAGG GCGCGTCCA GTCTCTAGTA GCTTCANATT TTCCAGTACC TGGAGTTATC ATCAGTGAAG
CCTGTGAAAC AGCAAAGATG GCAGCCTACC GCTCCCTTTG GAAGCTTTGC CCTAGGGAGG TATGAATGAN CTINTTGCTG
GCCCAAACAC ACCTGTAGGA GGTGGCTNGA GACCCAGTT TGGAGGTTTT GCCAGTGAG GAGGAATGGC ATTGGGAAAG
TGCTTAAAAA AGCAGTCTGG GCTCATTTTT TATAGAGCAG CTGTGCTAAT GCTGAGGGGT CCACATCA

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SEQ ID NO:1135: (Length of Sequence = 402 Nucleotides)

GCAGAGGCTT AAAGAGTGCT TATTCACTGA GGCTTGCCCT TNCITACTCC TTCCTGGGAA CCCATTGGC AACAAAGTGAA
GAAACCTAGG CCAGCCTNCT TGAAGATGAG GGACCAACGG AGAGAGAGGC TCTGCTGTCC TAGCCCTCCC ACAGAATAAG
TAAGCCTAGC CAACACCACG TGGAGCAGAG ATGAACCATC TCAGTGTAGC CCAGCCCAA TTGCTGACCA AAAGAATTGG
GAACAAATAA ATAATTATTG TTTTAAGCTA CTGTGTTTCT GGGTGGTTTT GTATATAATA GTAGCTACCT GATACATTGG
GATGACCCCA ATTACTTGAA CTCTCTTAG GCCTGTTTTA TCAGGTGCAA ATAGGGGATA ATTTTAGTAA TTINGGGTTG
CT

SEQ ID NO:1136: (Length of Sequence = 381 Nucleotides)

CAGGTGCGAG CCACCACGCC CAACCCAGAA CTCITTTTAT TTTCGAAAAT TGAAATTCTA CCCATTAAAT AGCAACTCTN
CTTTTCCCTT CTCCCCAAG CCCTTGSCAA CTGCTTTTCC ATTTCTATGA CAATCTCTAC TCTAGATACC TCATAGAGGG
TGAATCATAC AGTATTTGTC CTTTTATGAC TGGCTTATTT CACTTAGCTG CTATATTAT AATACCAGCT TTCTGGGGAT
ATAATTCACA AACTGCAGAA TTGAATGGTT TTNAGTCTAT TCACATCGGA TATGTTTTTG AAGAGACAGT AAAACCAATC
CTTTTTCTCT TAGGTTCTCA GACACACACA TGCTTCTTTA TCTGGCAAGT CCCGTTATAA A

SEQ ID NO:1137: (Length of Sequence = 325 Nucleotides)

TATTTTTTGT ATAGACAGGG TCTTGTTATG TTGCCCGAC TGGTCTCGAA CCCCTAGTCT CAAGCCATCC CCTGCGCTTG
GCCTTCCATT CCTCTACTTT ATACCACGGT TATTCACCAA GCTGTCTTT GTTCAGTGTA CTCTCTCATG GAAAACTGA
GGTGATATTT ACCCTGGTIT TTCTACCACT GTGTAAGTGT CGCTAGTACC AGCTCAAAAA ATAAGAAATG AATAAATGAG
TGATGACTAT CACTATGTTG CTCAGGCTGG ACTTGAACCC CTGGGTTCOA GTGATCCTCC CGCTCAGCC TTCCAAGTAG
CTGGG

SEQ ID NO:1138: (Length of Sequence = 422 Nucleotides)

CAACACACAT TAGCCTTAAC AACAAAGAGC TAATCTTATG TAAAGAACTC TTACAATTCA GAAAGAAAAA GATCCTAGTG
AAAATGTGGG CAAGAGATAG CAAAAACCA GCCATATGAT AATAAAGTGC AATAAGTGAA TCTGAATGAT GTTATCTNCT
TTTGTCATTT TAGAAATACA AATAAAAATG ATGATGAATG CNCITGCTTA CTAAATTAGC AAAANCTGGG AAAAGATGAT
GATATTCAGG GTCAGATAAA GGGAAAAGGG TGCCCTTCTA TTGCAGTTTG GAAAGTAAAT TGGCACTGAC TTTTAGTGGG
GATAGTCTTG TAATATGGGT CAAANGTCTT CAAATCGTGT CCACATTTTG GGGCCTGCAA TTCCACTTCT AGGGATTTAT
TCTAAGGAAG TACCTAAAAA AT

SEQ ID NO:1139: (Length of Sequence = 367 Nucleotides)

ATACCGAGAA GCATGCAAGC GGTGGCTCCA CGTCCACAT CCATCCCCAA GCTGCTCCTG TTGCTGCAG ACACGTTTTG
GATACACTCA TTCAATTGGC CAAGGTATTT CCCAGCCACT TCACACAGCA GCGGACCAA GAAACAACT GTGAGAGTNA
TGGGAAAGG GGCAATAAGG CCTGTAGCCC ATGCTCCTCA CAGTCTTCCA GCAGTGGCAT TTGCACAGAC TTCTGGGACT
TATTGGTAAA ACTGGACAAC ATGANTGTA GCGGAAAGG CAAAGAACTC CGTGGAAATC AGTGCCAGTG ANGCGCTGGC
GGTGAGGGGG TAAACCTTTT NCATACAGCC TTCGAGGCT CTCCACT

SEQ ID NO:1140: (Length of Sequence = 412 Nucleotides)

ATCCAAAGGA TATAGGCAAG CATCAGATAC AGCCAAAGCA TTCTTTTCTT AAAAGAGTCT GAACGCATCT NATGCAACAC
CCAAAGTAT CCTTTNCTC CTCGTTACAG TATGTTTTGG CTTTGGGAATA AATGATTAGT TATTGAACAA TATATGGAGA
AATATCTTAC AAAAGGAAGT CATTTCCATT TTCTAACATC TTTTACATTG CACTAATTAC ATGGTTTAAA TGACTATCCC
TAATCTTCAT CCAACTACAC CCCATGAATT TNAGGTTTTAT TTAATCAACC TAGTTAGACC AGATATATCC TTCTAAAATC

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ATTGTAGAT AGAGGATTCT CCTTTTGCT AGTAAATACC ATTAACATAT TTNCAGANGG CCTGGTCTAG GGTCAATTAT
TCCAGGCGCT CT

SEQ ID NO:1141: (Length of Sequence = 410 Nucleotides)

GTTAACCCTGT GCGCGCTCC GGGTATCCGG CGCCTGANGT TTTAGCTGCG GTGGCGGCGG CAGTCGGGAC CGACTNAAGA
TGTCATTGT CAGAGTGAAC CGCTGTGGTC CCGANTTGG TGTAAGAAAG ACACCGAAAG TAAAGAAGAA GAAACTTCA
GTGAAACAAG AATGGGATAA TACCGTACT GATCTAACCG TTCATCGGGC AACTCCTGAA GATCTGGTAC GCCGTCATGA
AATACACAAA TCGAAGAATA GAGCATTAGT ACCTGGGAA CTCCAAGAAA AAGCTTTGAA GAGAAAATGG AGGAAGCAGA
AACCAGNAAC TTAAATCTT GAGAAAAGAA GATTNGTCTA TCATGAAGGA GGNITCTTC TGATCAATAC CAGATGCAAA
GATGTGTGG

SEQ ID NO:1142: (Length of Sequence = 392 Nucleotides)

TTTTTTTTTT TTTTTTTTTT TTTTCNNGG ATTGAATGTC TTTATTAAAT AAACGAGTAA ATGGTAGCAC AAATCACCAT
CAATATTTTT GGAAGGATTG GGGACAAGAT GTGAGTCAG AATATAATIN TCCATTTAG GGTCTCAATG TAGCTGAAGA
ACTGTGCCCA CTGATCAGTA TTACGTATG CAAATGCAGG AGGTAAGGCT AAAATAGGAC TTATGCCGTT CAGAAGATTG
ANITTGAAAC CTTAAAACT ATCATAATAG TAGGAATGCA TGTTAAGATT TGATAACTTT CTTTAGCTAG AGTTTTCAC
CCACAGTAG GAGCAAAGTT GTAAAGTGAG TAGGINTGAA GAAGGGACAC TCTTTTGAGA AAAGAAATIN GC

SEQ ID NO:1143: (Length of Sequence = 200 Nucleotides)

ACTTCCTCTC TCCGGCATC TGCTATAAAA ATAAGAAGGA GCAATATTC TTGCCTCTTT TTATCACTG ANCTGAAAC
CCATTGTAA TCCTATGAAA ATAAGCACTG GTCCATGAGA CCAATGCCCA GAAAATTCAG GCTAAGATTG CTGAAAGTG
GGCTGTGGC ATTATTTAAA ACACACACAC AAAATTTACC

SEQ ID NO:1144: (Length of Sequence = 333 Nucleotides)

AACAGAAGCA TGTATTTCA TTCCATTCC CAGAAAGGA GTTAATGAAG ATAAAAATTT ATTTTTTAAG GTCTTTATG
AGAGAACTT TGTTTCTGA TATGAATAT TGCAGATGT TTTATAAATA CTTTCAITAA AATGATGIAA ACAGTAGTAC
CCAACACTGT AAACCTAGT AAAATAGTAA ATGATTCTTT TATTACTAAG ACTGTATGC ATCTGGAAGC AGFTGGCTTT
TTTTTAACCA TAGGAAGTCA TTTCCCTCTA GTCCTTCCC TTCTACTCTC CTGCTCAGAC CATTAGTAGG TACTTTGTTA
AATAAAAAAC TAG

SEQ ID NO:1145: (Length of Sequence = 225 Nucleotides)

TGGGTTTCTG ATCCGAGAAA AATTGAAAGA CAAACATGGC TGGGGGAAGC AAAACGCTGA CACACAATTC AGGTGGCCCA
GCAGTGCTGA CCTGCAATCC ACCCCACCCC AAGGCAGCCC TTTCAATCCA AAGTGGACAG AGTGGGCTT ATCCAGANT
CACTCAGGAA GCTTCTTCAA ACATATGACT GCCACACCCG CCCCAGGT TCAGAAACAT CTTCG

SEQ ID NO:1146: (Length of Sequence = 223 Nucleotides)

AAGNACAAT ATTATTCTAA ATAATTAGA TTTGGAAGAC ATCAATGACT TTGGAGATGA TGGGTCTTG TATATTACTA
AGGTIACCAC AACTCAGNT GGCAATTACA CCTGCTATGC AGATGGCTAT NAACAAGNCT ATCAGACTCA CATCTNCCAA
GTGAATGCC CTCCAGTCAT CCGGGTGTAT CCAGAGAGTC AGGCTAGAGA GCCTGGGGTA ACT

SEQ ID NO:1147: (Length of Sequence = 389 Nucleotides)

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ATTTCAGTGG CCATTAAGAC CCTGAAAGTT GGCTACACAG AAAAGCAGAG GAGAGACTTC CTGGGAGAAG CAAGCATTAT
 GGGACAGTTT GACCACCCCA ATATCATTGG ACTGGAAGGA GTTGTACCA AAAGTAAGCC AGTTATGATT GTNACAGAAT
 ACATGGAGAA TGGTTCCTTG GATAGTTTCC TACGTAAACA CGATGCCAG TTTACTGTCA TTCAGCTAGT GGGGATGCTT
 CGAGGGATAG CATCTGGCAT GAAGTACCTG TCAGACATGG GCTATGTTCA CCGAGACCTC GCTGCTCGGA ACATCTTGAT
 CAACAGTAAC TTGGTGTGTA AGGTTTCTAA TTTCGGACTT TCGGTGTCC TGGAGGATGA CCCAGAAGC

SEQ ID NO:1148: (Length of Sequence = 386 Nucleotides)

ATTAAATGCT TGCCATCATG AGCAGAAGCA AGCGTGACAA CAATTTTAT AGTGTAGAGA TTGGAGATTC TACATTCACA
 GTCTGAAAC GATATCAGAA TTTAAACCT ATAGGCTCAG GAGCTCAAGG AATAGTATGC GCAGTTNATG ATGCCATTCT
 TGAAAGAAAT GTTGAATCA AGAAGCTAAG CCGACCATTT CAGAATCAGA CTCATGCCAA GCGGGCTAC AGAGAGCTAG
 TTCITATGAA ATGINTAAT CACAAAATA TAATGGCTT TTGAATGTT TTCACACCAC AGAAATCCCT AGAAGANTTT
 CAAGATGTTT ACATAGTCAT GGAGCTCATG GATGCAATC TTGCCANGT GTTCAGATGG GGCTAG

SEQ ID NO:1149: (Length of Sequence = 364 Nucleotides)

GGCAACAGGG TGAGACTCCA CCTCAAAAA TAAAAAATA GAAAGATATT ATTCAAGAAA AGAATCTAGG AGCCAGGTGC
 AGTGGCTCAT GTCTATTATG CCACTACTTT GCGGGCCAA GGCAGTAGG TCACTTGAGG CCGGGAGTTC AGAGACCACT
 CTGGGAAACG TAGCAAGACC TCGTCTCTAC AAAAAAGTG TTTAACAAAT TAGCTCAGTA TGGTGGCACA TGCTGTAGT
 CCCACCTACT CAGGAGGCAG AGGCAGAAGG ATGGCTCGAG CCTTGAATT CAAGGCTGCA GTGAATAAG ATGGTGCCAT
 TGCACTCGNG GATGGGTGAC AGAGCAAGAC TCCATTGCGG CCAG

SEQ ID NO:1150: (Length of Sequence = 267 Nucleotides)

GACAGGTGTA ATCTAAGCTT AAATAAACCC CCCGGAGGCT GCACAATTC TTGGCATCTC TCCCTGCCC TCTCCATCCG
 CATATTCATT TTGGAGTTTG GAGAAGTATC TAGAATCTTC TCCACCCCA AAATGCCAG CAGAGCCCC CCGCCGCC
 CGCACCCCTT GGAGCTGCGG CTGTCTGAAT CGTTGAGATG TCTGANACTG TCGGGTTCC CTACCTAGTG CTCAACCAG
 ATCACCTCAC TTTTGAATTT CCTTCCT

SEQ ID NO:1151: (Length of Sequence = 386 Nucleotides)

GGAAGACGAA GGAGGAGTAA AGGCATGINT CACATGGCAG CAGGCAAGAG AGCGTGTGCA GGGGAAGTGC CCCTTATGAA
 ACCCTCAGAT CTGCTGAGAC TTATTCACCTA CCATGAAAC GGCACAGGGA AAACCTGCCC CTAAGCTTCA GTTACCCCCG
 ACAGGTCCCT CACATGACAC ATGGGGACTA TGGGAGCTAT AATTCAAGAT GAGATTGGG CAGGGACACA GCCAAACCAT
 ATCAGATACT TACCACATTA GACACTGACA GACAGCTCAC CACAGATCTT GGGCTCTATT CAAGGTGTG ACTTTGATCT
 TTTTCCAGTT GTAAATGTTT CATCCAAAAA AACTGTGATT TTGGCATAAC TTTTTCAG AGTTGC

SEQ ID NO:1152: (Length of Sequence = 239 Nucleotides)

GCAATCTTTT GAGTGACITA CTGTAGTCT TTGTACCTT TCCCTGATT TTTTACATG GTTTAACTCA GTGTACCCAA
 GAGTACTAGG TGCACTCAAT TCTGCTATTA ACTCTATAAG CAAGTCTTA AGAAAGTTAA TGTTAAAAA TAATCTTAAA
 ATTGTCTTGA TAGGAAAAAT GTATTGAAA TTAATAAAA TTCTATGTT GACTTCTTGG TTTTGAAACA ATGAATATA

SEQ ID NO:1153: (Length of Sequence = 275 Nucleotides)

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CAACCTCCTC TTCAGTGTCA AAAAAGCCAC GGTTAGACCA GATTCTGCC GCCAACCTTG ATGCAGATGA CCGTCTAACA
GATGTATGTT TTGTTTCTC CTTCATCTC TAATAATTGA TTTACCATGT TTTCTAAAA TACTTGTTAT GTCTTINCTT
TAAGAAGTGA CATATATTTA TGTTTAGTTA CTGTTATTCA AATATAGCCC TGACCTCAGT GCTAAACTTT ATAGTTGATT
TTAAAATCAA AAGTATTATT TTGTGGGACT TTAAG

SEQ ID NO:1154: (Length of Sequence = 203 Nucleotides)

CCTAAATCTT AAACCTTACA ACAGTTAAAT AAGACCCCTT TCAAAGGGAT TAACACACTG AATATTATAT ACATACAGAT
TTATATTTAT GCGCTATACA CATATATGNN CTTTATCTGT ATATAAATAT GTGATGATAA TGATAAAAGG ATAATGATTA
CACGTAGGAT AACATTAT CAAAAATTGT ACTATAAATA ATA

SEQ ID NO:1155: (Length of Sequence = 343 Nucleotides)

GAAAACAAAA CACTAAGCTA TTTTGGACA ACTGTTCTAC ACAGAAGAGA GCTTCTCTTA ATTTAAAAA AAAAAAATC
CCAAATAGGC ATTTTAGGC ATTAAACCAA AAAGAGAATC CAAATGAAAT ATTATACTTG ATGTTCAATT TTAATAGCAT
CTTGATAAAG GTATGCTTCC TTTCATTGA NTACATTTCT GNACATGAT GITATAAAAT CCAGGNAACA GCCAAACCAC
AAGTTAACTC TTAACAATGA ATATACATAG TTAACCTAT AGTAAGCAGC CCCTTTGAAA AGCACTGATG CACCCAACAN
TTATATGGTT CCATTCATA AGG

SEQ ID NO:1156: (Length of Sequence = 396 Nucleotides)

CCCACCAAT GCCATTAAAC CTCCAATCT TTAAGGGAG GNTCTCTACT TACTGTTCA AGGCAAAAAG ATGATTAANC
TATCTCATAT GGTGTAAAT TGGGCTAAA ATAAATGACT CTAGTGGTAG CATTTTCATGT AGGCAGGTCC AAGGAAGACA
GATTGTAGA CAGAGTTGGG AAAAGGTCA AAGAGCCAAT GAGTCTCCT ATCCTGAGGG ATGCTTGAC GGAGCCACAG
CATGANCTCA TGTTCCTG AATCCATCTC AGTTCATGT ACAGGATGGA AATGCTTCCT TTCTTAGCCA GTGTGCTTG
TAACGAGTTC CTTGAGCTC AGGGAAGGGA GCAACATGTA CTGCTTTGTT GCTTCCTGTA TAGAGAAGGC AGGAAT

SEQ ID NO:1157: (Length of Sequence = 269 Nucleotides)

CAGGGTCTCA ATCGTCTCC CAGGCTGGAG TGCAATGGCA CAATCTCAGC TCACTGCAAC CTCCACCTCC CGGGTCAAG
TGATCTCCT GCTCAGCT CCTAGTAGC TGGGACCACA GGCCTCGCC ACCGCAACCA GCCAATTTT GTATTTGTAG
TAGAGACAGG GCTTACCAC GCTGGCCAG CTGGTCTCAA ACTCCTGACC TCAGGTGATC TGCTGCTC GGCTCCCA
AGTGCTGAGA TTCCGGCTG AGCCACTG

SEQ ID NO:1158: (Length of Sequence = 190 Nucleotides)

CTTATTAGTT AATCCACGG CAGATTTCA TTTCTATCGA ATATATTATA TGTAGAACT AGGGCCTTA ATAATTAGC
TGACTTNC TATTAGTTAT TCCTAAGAT AAAATTATGC TGGTGAAT NACTGTNGAA TTTCTCAAGA AATTAGCTC
TATAGAGGCA TAAGTAATCG AAAGACTTT

SEQ ID NO:1159: (Length of Sequence = 340 Nucleotides)

GGGCACTGAC TTCTGGGAG TGTAAAGCNC TCACCTGGAC CCCACAGCA GTGAGCATTA GTGCTTATAT TCCATCTCC
AAAGCTCTTT CTTCATACCA GACCACACAT GTGGCCCAAG GAGGATATT TACTCTGCAC TTTTAGAGTT CTAGAAAACA
TTGTTTAGTG GTCTGGCATC ATCTATATT ACTTGGCTTG ATTTGGGATA GAGTATAATC CTAGTCTCG ATGAAAGGAT
TTTATGAGT TAACCTTATG GGGTGTGGG ATTTATGGGA TTATTTCCAC CCTTAAATG ATTTTGTGGG GAAAAAAGT
GTACTAATCC CTAATTTAGG

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SEQ ID NO:1160: (Length of Sequence = 215 Nucleotides)

GTAAACAAAT CAATTAACAT GATTATCCCA GACCTTTCTT TTCTTACTGG AAAAAAGAGG GCATTAAACT GGATGATGAC
 AATAACACCA TAACTACAAG CTTTATATAA AGTCCTTAT ATACAGTGT AATACAGTGA AAGNTCAACC TTATTGAAAG
 AGGTCTGGCT TCTGCCCTCA GCTACTGGGA AACAATCACT AGGCCTCTGG CATGT

SEQ ID NO:1161: (Length of Sequence = 298 Nucleotides)

AATCTTTAAA ACTACTTTGA ATCTATAGA AACATCAGAA TCTTTTGAAT TCAAAAGAAG CCAGGGACTC TAGCCAAAGT
 GGAGTGGTTT TTTAACTCAA GGATTTAGGA CCTTGGCTGA ATACAAACAT TGAATGATTA CTCAGTAGGT GCCAAAGCTC
 AGGACTTTAG ACAGAGTCAG AGTCCAGTTT GTNCTGAAAC ACAATTTGAT TTCAACTATT GTTTTAAGTG AGAGAGGAAA
 GTGACATTAT TATGAGTGTA AATTTNCTGC TTTTAAAGTA GAAGTTACTG ACAATIGA

SEQ ID NO:1162: (Length of Sequence = 163 Nucleotides)

GAAATAAGAA ACAGCTTGTA TATAACTAAT GCTTTGAGGG AGAAATTCAA ATGGCTATGA AAAAATATTT ATAATTCAAT
 GATAATAAAA ATCTTACACG TTAAACTTGA AGAATGTAGT TAAAGCAATA CTGGNCATA ANCTTAGCAC ATATTAGTAA
 AGA

SEQ ID NO:1163: (Length of Sequence = 393 Nucleotides)

GCCAAACCCA GGAGCATTTT ATTCAGATGT TAAATGAACC AGTTCAAGAA GCTGGTGGTC AAGGAGGAGG AGGTGGAGGT
 GGCAGTGGAG GAATTGCAGA AGCTGGAAGT GGTCAATGA NCTACATTCA AGTAACACCT CAGGAAAAAG AAGCTATAGA
 AAGGTTAAAG GCATTAGGAT TTCCTGAAGG ACTGTGATA CAAGCGTATT TTGCTTGTA GAAGAATGAG AATTGGCTG
 CCAATTTNCT TCTACAGCAG AACTTTGATG AAGATTGAAA GGGACTTTT TATATCTCAC ACTTCACACC AGTGCAATAC
 ACTAACTTGT TCACGTGATT GTCTGGGATG ACTTGGGCTC ATATCCACAA TACTTGGTAT AAGGTAGTAG ATT

SEQ ID NO:1164: (Length of Sequence = 260 Nucleotides)

TGCATTCTTG CCTTTTGAC AAGTCTGCT TCTTTACAAA GGACITTGCA AGTNCITCAC CCAGACCATC TCACCTGTAC
 CGAAATAACC TCCCTACTA CGGAATGAGC AACTTTGGAG CAGAAAGCAG AAACGTGCATC ATATTCTCT TACTATGCAA
 ACTGGTAGCT CAAACCTCAT ATGACCTCAA AAAACTATAA TTGCTTCAAC CTAAAAAGC TGATTGTAAA AAAAAAAAAA
 NGCTGTGGTT GCACACAGT

SEQ ID NO:1165: (Length of Sequence = 330 Nucleotides)

CATTGGTATT TAAAAATGAA TATTAATATA ATGAAATGNN TTGGCTTTT TGTAGGCATA ATAAGCCAAA TACTTTTTTA
 CCCAAAATAA TTTTINAGAGA AAATGATGTA ATGAAAAATT GTACCATGAA TTAGGAGCAT AGTTTTTNC ATTTAAACGT
 CACCATTACT TAAAAGATGA TTGATTATTG CTATACCAA TCAGATGAAC TCTGTTTATC ACTTCTCTNC TCTGTCCCA
 AACAATTTGG TTCATTGAGA CTGAAATGTT TGTGTCTTCA ACTTATTAGA ATGGAAGATA ATGCAGATAT TTCTGTGGGA
 AATAAAATAA

SEQ ID NO:1166: (Length of Sequence = 312 Nucleotides)

ATTGGAGATG CCTTTGTCAA ATTTNCCCAT TTTAAATGGC CAGGAAAAAC AATAATTATT TTCCTGATGC TGAGGTTTTA
 TATCTTAGTA GAAGAACTTA AACTATGACT TGTATTCAAG TCTAACAGGA ATAGAGGTAA TGANTGAAAG TAGTCATTGA
 CCTGGGACAA GATCATTG AACATGACAC TATTATACAA AGTGTATAT TATTTTTTAA ACAACCATT TTCAAAGCA

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GTTTGTCATA CATTCCAAAG AATAAAATGC TAGCTACTAG GTTTTGAGAA GCAGAATAAA ATATGATACT GA

SEQ ID NO:1167: (Length of Sequence = 305 Nucleotides)

AGGAAAAGGA TTGATCACAG GAGAGGTACC AAGGGAGTTC CCAGAATAAT AGAAAAGAGG NTCCTCAAGA AGACAGTCAC
GCAAGAGACC AAGAGAAGAG CTAATCCAAT TGATGCAGGA GGAAGTAGAG CTTGAGAAAG AATGTCTCAA AAAAGAAAAA
AAAAGAAAGG AGTGGGTAA GTATCTGATG ANTTTNCCTA ATTGAGAGGA GTTACATAGC TCTATTGAAA ATCTTAGATA
AANNTGATTG ATAAATACAT AGANCATAAA GCAAACTCTG AAATAAGGCA ATTATCAACT CCAGG

SEQ ID NO:1168: (Length of Sequence = 342 Nucleotides)

AAGGTTTTAG TGATGATCA GTGAGAAACA TATTGAAGC AACAAGCACA GTAACGGAA GCTGTAGGTA CTCAATAAGT
GTCAGTTTC TTCTCTCT AAAAGCTGTG CTTCAAGTC AATGTATGT CTAGAGTCGC ACTGTCTGGT ACAGTGGCCA
GTACTAGCCA CATATGGCTC TCAAGTACTT TAAAGAGGGC TAGTCTGAAT TGATATGTGT CATACTGTGA AAATACTTTA
AAGAGGGCTC ATCTGAATTG ATATATGCCA TGCATGTAAA ATACAAATCA GATTTCTAAA ACTTTGTACC AAAAAATACC
ATAAAATAAC TTACTAATAA TT

SEQ ID NO:1169: (Length of Sequence = 397 Nucleotides)

GAGACGGAGC TCNTCTGTC GCCAGGCTGG AGTGCAGTGG CACGATCTTG GTTCACTGCA AGCTTCACCT CCCAGGTTCA
CACCATCTC CTGCTCAGC CTCCCGAGTA GCTGGGACCA CAGGCGCCCA CCACCAGCC CAGCTAATTT TTTATATTTT
TAGTAGAGAC GGGGGTTTCA CGTGTATAGC CAGGATGGTC TCGATTTCT GACCTCTGTA TCCGCCCCGN TTGGTGTCCC
AAAGTCTGG GATTACAGGC GTGAGCACCA ATGCCAGCC TTTGGAGACA CTTTGTATG CCACAATCA GGGTAGGGAG
GGCTGGGAAA TATTACTGGT GTGTAGTCA TCGAGGCCAG GGATGCTGCT AGACATCCTG CAATGCACAA GGACAGG

SEQ ID NO:1170: (Length of Sequence = 422 Nucleotides)

GTTTAAAGC CTCGACAG AGCAGTATTT CGTTTAAAC TTTGTTTTT TTAAGGCTT ACAGTGTGTTG GCTAATCTC
CTCCCTTTT TACAAGACGG GGGCCGGAGG GTGGACACTG GTGGCAGGT AAGGGTACT GTACCTTAA GAAGCCTGCA
GATTGAAGTG TAAACATGGA GAAATTAGG GCTGATTTT TAACTGTGT GAGATATTA CCAGCGCCC TGTATATAAA
TCAGAAATC CAACAGCGA TTACACCGA TTAACCCCC CTTTATATAT TTTTACAAA AATACACTGA GAAATAATC
AAACGTTTT ATCTCTCTG TCTTTTTTG TTTTTTAAA GTGTCAAAG TCTACATNTA AATATAAAN ATTAAAGTT
AAACTCTAGC CCTTCAGTGA GG

SEQ ID NO:1171: (Length of Sequence = 384 Nucleotides)

TCTGAATGGG TTGGTGAAAG GTTACAGGAG CAGACAGCCT CCACACCCAG GCTGCTCTTG GCTATACAGG CTACCTCCAT
CCCTGANTGT TGTAAATAGGA AAGTCTAAAC ACACAGAAGA GGAGCACAAA ACCAATAATT ATCACACATT CAAAATAAAA
CTAATCCATA AAGAAAAGTA CCAAACTCAA CAAAGACAGC AATGCCTGAA AACACTGGGC TGTATCAGCA AATAGAACAA
AGAAAAATAN GCATAATTAA AACAGTAGAA GGTGAAGGAT AATTTTAAA ANTTAGATAT CATATTCTGA TTAATGAAAT
AAAAAACTTA GTAGAAAAGC TTAAGTGAAG AGGATCAAAC CTGAGGAGGA CCCCAGCT TTTG

SEQ ID NO:1172: (Length of Sequence = 418 Nucleotides)

GAGAGAAAAA AAAAAATCT TTTAAAGCT GCCATCTGAG GTGATGGCTT CTCTGACTT ACGCCATACC CCAGANTACA
ATAAATAAGC AATTAGAAA CGTCAAGTA TGAAGGGATT TCCTCTCCC CGCCAAAAGC ACTGCTCTCT GAAGGAAGCT

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GGTTTCTCTG TAGCTACACC AGCTGTTTCTG AAAGCTCATT GGACCTGGTT TTGAAAATAA AACAAAGTTA AAACCTGGG
 AGGAGTTATT GINCAGTGTG GAGTACTCAG GCTTTCTTAT AAAGAAAAAA AAAGGTTATC TGGTACCAAA GTGTGCACCT
 ACAGACCCCTC AGGTACTGCC CTGTGACTTC NCTGTATGAC ATCACAAGGC TGCCAAGTGC TGCTTTNCTA GACTAGGGAG
 TTGGTGAGGT TTGCTAG

SEQ ID NO:1173: (Length of Sequence = 274 Nucleotides)

GAGATCTAAA TGAAATTAT AAGAAAATTG TGGGTTCTGC CCAAGATGAC ATCTAAATTG AAGAAGGTAC ACAGTGAGTT
 TAAAGGATCA ACGAGAGAAA CTTTATTAT TCAATTGCAC AAGAAGACAC ATTCAATATC TGGATTATCC AATATATGGA
 ATACTTTGAG TTGAAATGAT TAAAGGGTAA TCTTTAATCA TTAATTAACA AATCATTAAAT TAANCAAAAT AATATTTAGC
 AAATTAAGCA AGTNTCTAAAG GCTACATGCA AACT

SEQ ID NO:1174: (Length of Sequence = 326 Nucleotides)

AGAAATTAAA AACTTTAAT ATAAACATTT CCAGAATATA GACTGACCTT ATATCAGTAC TTTTNGAGAC CGTTTTAAAA
 CTATATATCA TCTAAGTTTA TTATAGACTG TTTTCATTTT CACTTTTCTA ACTAGAAAAT GCAAAAATAC ACTGCAAAAT
 AGATTTTACA AAGAAAAAAT CAGTTTAAGN TATTTTATAC ATATTCTTGT GNGAAAGCTG AGACACATAA ACACAGNAAA
 ACAACAATAA AATACCACCA AACTAACAC AAAACCAAGG AAAGAACTGN TTTTGTAAGC CTGGTAATT CTGTCTTTTA
 AAATAA

SEQ ID NO:1175: (Length of Sequence = 426 Nucleotides)

GCAGTCAGGA TGGACACATT AGAAAGAAAC ATTTTAGTTT CAATGTTACC ATAAACCAG AACGAAAAGC AGCATGCTGT
 ATTATATTIN NCAATTTAGG TTCCATTTCT AACTCCACCT AAAATGAATA TGAACAACT CATTTTAAAG TGTGTCAG
 TCAATACAA TAATAGTCTA AGTTTATTCA CATATGTACC AACCAAGCC CAATAAGCT AAAAGGAAGC CAAGTGTAAAT
 AAAAAGGCAG CTATAAGGTC TTGTGTTTGA NTTTTACCC AGCAAGAAAT AAATGATACT TAGTAATCCA TCTTTCCCCC
 CCCTGCCAT CCCTGCACAC ATCTAAAATA GGCTAACTTC ACCTATTCTA ACTTCGAAA TTGTTTGGG ATTCCTGTTT
 TACTTTCTCA GAGTGGATGG TATAGC

SEQ ID NO:1176: (Length of Sequence = 301 Nucleotides)

CTAATCTCA ATCTATCCC TTNCCCTT AGCCATCCTC TCTAATTINT TTAACCTAAG CCTGTGTGTC CTCAGAAAAT
 AGGTTATGCT GTTGGTGTGT GTGGTGGTA ATCTATATAC ATGGNGTTAT GCTATTGATT TTGTTTGGTA ATCTCCCTTT
 TTACTCAATA CTATATTAT AAGANCCNTT TAAGTGGTTG TATGCCCTTA CTTTATTGCT TCTGACTGCT GCATGGNATT
 CCATCTCAT GTCCACCACA CTTACTCATT CTCCTCTTG ATGGACGCTG AAGTTGCTTG G

SEQ ID NO:1177: (Length of Sequence = 331 Nucleotides)

GCAATTCGCC TGCTCANCT TCTGAGTAG CTGGGATTAC AGGTGCCTGC ACCACGCCG CTAATTTTTT GTATTTTATG
 TAAAGACAGG GTTTCACCAT GTTGGTCAGG CTGGTCTCGA ACTGCTGACC TCATGATCCG CCGCCTCAG CCTCCCAAAG
 TGTGCGGATT ACAGGCATGA GCCACCAAGC CCGGCAATC CATGCTTTTA AACATTACTC TGTATGGTGT GATAATGAAC
 AGTCACTGNT ATCTGACTGT TCATCTGTGT GGTCCATCTG TATGAATAA AGGAGGAAGG AGTTGAAGAA TAAAGGGGAA
 AATCTTGCA A

SEQ ID NO:1178: (Length of Sequence = 325 Nucleotides)

GAAATNTTG GAGAGAATAG TCATACCTAC TTTAAAGAG AATAAATGC CTTTCTAAA TNCCTCTGCT TCGCTCCTTT
 CCTGGCGTTG CTCTGGAACC TTGTGAGTTA TATGTATGAT TNCGTACTC TGATATCCAT CAAAGTGCAT AACATAGTAC

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TCATGATGCA GTAAGTACAA ATCTTTTTTG AAAGAGATAT TGCTTGINAA CATTTTGGAT TTATAACATT GGCTTATAAT
ATATACAACA TCTTTATAAA TGCCACCTCA GTTGGGTTTT AAGCCTTACA AGAGTGCTAT GAGTAAATAT CACCCACTTT
AAAAA

SEQ ID NO:1179: (Length of Sequence = 297 Nucleotides)

CCTTGGGAAT TGTTCCTGG AATTAAAGC ATGTGTCTCA CACAAACAGT AGAAGGCATT GAGCATTGAT TAGTCTTTC
TCAAGAAGAT ATCAAAATGA GACTAGAAAC TCTCTGGTGA ACACAGAATG CTCTGAGGGG GNCCAAGGTA CATATGACC
TTAAAACGAA CTCCTTCTCC ACTGGCCCTA TTAATCACTG TGGAAAGCAC CATGCCAGGC ACAGCAAGAG ACTTAAGAAC
ACCTACAAAG GAAGATCTCT NCCATCCACT TGTGTAATTA TCTTTAAAAA GTAATCC

SEQ ID NO:1180: (Length of Sequence = 278 Nucleotides)

GCTGCTTGGG ACTTGAAATC TGTGGCGAA GACNGTCAC TACATAACTT CAAAAATAAT CAACCACCTT CCTTCCCAA
ACCACCCAAA TTCACTCATC CAGCGTTTAC TTTTGTGAAT CCACTCAGAA CTTTTTNCIG CGACCCCTT CCTTAAATGG
AGTTGGGTGG GGGGAAATG AATACTGAGT TGGCCCTTAT TTTTAAAAAG ACTTTTIGAT CCAATGAGGC CCCCTAANTA
ATTGAGTTTT GGGTCCCTGGT TGGTTTGTIT TATTTTGT

SEQ ID NO:1181: (Length of Sequence = 331 Nucleotides)

AATTGAGTTA CAGGAGAATA CTGTGAACAA TTGTACAGCT AAAAGTAATA ATCTAAATTA AATGTACACA TTCTAGAAA
CACACAAATC ACAAANCTG ACTCAAGSAG AAATAGAATA TCTCAACAGA CCTATAACAA CTAAGATAT GGAATCAGTA
ACCAAAGCC TTCCAACAAA GAAAAGCCN GGANTAGATG ATCTTCACTG ATGNTTCTA CCAACATTT AAGAAAGATT
TAACACTAAT TCTACTCAA CTCTTCCACA AAAAATATGA GANGASTAGA GAAACTTTC TAAATATCT TATGAGGGCA
GCATTACCGT G

SEQ ID NO:1182: (Length of Sequence = 345 Nucleotides)

GTTGTGINTAG AGGGATGGAC AGGATGCTGT TTATTINCCC TTCTTGGAA ATGGACCTTC TGTCCCTTCC ATTTGGACAC
CACAGTGGAA GCTGGTGGCC TGAAGGAAG GATTAGGTCA TGGACATTG AACAGGTGCC TTGGGCATGA TGTATAGATG
CAGTCATATA TACCTTGCTG GGNIGGGTIG CCACCTCCAG TGGNCAGCTC CAGATCCAAG GAGCAGCCCC CTGGGGATGG
ACCCCATTC TATCATGA CTCCAACAG TTTTINATTG TGAAGAAGA AACTTTNGCA TTATAGAGAC ATCATCACAA
AACAGTANAA ACAAATCAA CCTG

SEQ ID NO:1183: (Length of Sequence = 272 Nucleotides)

ATGGAAGATT CAGAGATCAA AGGTGAAGTC CTCTATCTCG GCTACTACCA ATCAGCCTTC GACTGNNATG ATGAAACANC
CAAGGCTCC AAGCAGCATC GTCTTAAACG CTACCACAGC CAGACCTATG GCAATGGGTC CAAGTCCGAC CTTAATGGGA
GGCCCCGGGA GGCCGAGGTT CGGTTCCTCT GTNACGAGG TGCAGGTATC TNGGGGACT ACATCGATCG CTTGGACGAG
CCTTINTCCT GCTCTATGT GCTGACCATT CG

SEQ ID NO:1184: (Length of Sequence = 335 Nucleotides)

ACATTTTGCA AACTCAGTTG ACTCACCTCA NATTTGCCAT TCCAATTACA GGGCCTCGAA AGAGTCAGCA CTCAGCCTTG
CTCAAGNTC AGATTAGGG GTTCCCCC GNCCCCGCAA CCTCCACCT ATTGTTTCAA ATGTCTTCAA GACAATCACC
ACTGTATTAA GAGAAAGAG CATGGGGGCA GAGCAACAAG GAAATAAATG AGGCTTGAGA ACTGTGTCTA GGTGGGGTTA
CTTTGAACCT TAAACCACCC TTGGGNCCCA AATCTGCATG AGCAGGGGGT GGGCTATCAT GCTACAGANC CCCAAGGAGG
ACATTTTTC CAACA

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SEQ ID NO:1185: (Length of Sequence = 383 Nucleotides)

GAGAGGTGAG CAGGCGTGCG GGGGGGGGAC TTCTGCAGAG AAAATATTTT TAAAGTCATA AAACCATGAA AATAACAAC
 ACTGTACGTT TTATTTTATA GAAATCAAGT AGTATCTAAT AGACAAGGA AGACATTGAT CCATAAAGTT TTTAAAGAAA
 ATTGGTAAT CTCTTAAAGT ATTTGTATGG CTTTGAATGG GTGTCCTTTT CTAACITTTT TTTAATTTTT ATGATACACT
 TATAATTGTT TCAAAATAGG ATTTGTNCAT TTTAAACTA CTAGAAGTA CACTGAAGAA AAGCATTCAA AAGAAGACTT
 TTGGACAAAA AAAATTGTTG AATGAGTGAA ATGCCTGAGG TAGCTCAATT TACCAAACAG GAA

SEQ ID NO:1186: (Length of Sequence = 373 Nucleotides)

GGGGCTCAAG GTGTGCATGT NTGAGGAAG AGAGAGAGAG AGAAGGCCGC CTCANAGGTG ACTTTCAGCC TGCNAGCCTT
 CTTCCCGGGG CGCCATAAAC GCCCCAATT TCCAGCTGC TAAAGGAAGA GGAAGGTACC TGTCGTGCA CGCAGACGGG
 AAGGCTGGG GAAGCGGGAG GACTGAGAAA AGCCAGATCT TAGCAAAGCA ATGTCTCAAG ATGGTGCTTC TCAGTTCCAA
 GAAGTCATTC GGCAAGAGCT AGAATTATCT NTGAAGAAGG AACTAGAAAA AATACTCACC ACAGCATCAT CACATGAATT
 TTGAGCAGAN CAAAAAGGCG CTGGGTGGAT TTCGGAAGCT ATTTTCATAGA TTT

SEQ ID NO:1187: (Length of Sequence = 365 Nucleotides)

TCCACGCAAT TCTGAATAAA GTTATTAA TAATATGTAC AGCAAATGTA GTAATTCAAC ACATCTATTT ATCAAATCAA
 TCCACTGCAA TGAAGAAAAA TAAATGANCA GAAAAATCTA TGTCTGCATA GGNCATGCTC TCAGTGTGTA ATTTAAATGG
 CAATACTTTA AATTAATTGG TTATATATAA TGTCAGTTAT TTTCTTTTCA GAATATAACC TTTTTTGTAG TAACCTATT
 TAGCAATAGG GCTTAATACG NCTGCAGATA AATAGNCTG CAAAAACCAA AAACCCAAAA TAATGAAATT NAAAAGGGGA
 AAAAACTGT AACTGNGNTC AGAGTTACCT TTCTCCCCC ATAGG

SEQ ID NO:1188: (Length of Sequence = 350 Nucleotides)

ACTATGGCT TACATTTATT TTAAATTCA CTAAATACAA ATCTTGATTG TCATGCCAGT TTTAGATCTT ATTAATTINC
 AGAATGGATA AATTCAAATA ATCATAAATT ACGGTAACCT TTTATTATAC CAAGGTGTTT TAATGCCATC ATATGANGAC
 AGATGCTTCA AACAACTGC APTAAATTAT ATTTNNAATA AAATTAAAT CTATTTTAA CCTATTGTGA GTCACAAACC
 GAAAACGTGT CGNCTTTACC TTAGAGCTAA AGGCTTACTT TATGCATACG GGATATTTAA TAGTCTACAA ATCAAAGGTT
 TAAACAGNCC CTTAAAAATT CCATATATT

SEQ ID NO:1189: (Length of Sequence = 393 Nucleotides)

GCAAACTTNC TCACCTCCTC AAAGAAGAGT AGTGCACTAA AAAGAAGGTT GCACCCGGAG AGCATGTAAA GTGTCTCAAG
 GGGGACATCT GAAGTNCCTT GTTCCAGGG AGCCCACTGG CTCCTCACA GATATCTAAT GAAAGCTATG CATTCTCTCT
 GGGCTCCTCA TATGAAAAAN CCAATGTAT GANGCAAAGC CTAGAAAGGA TTCAATACTG GAGAAATGCA CACAGCTACC
 GATAAAGACA GCTCAAAAGT CTTAAGGCTG CTGACATGAA CCAGATAATT GGTGGCTACA GTTGTGCTTG CTAAGATTG
 GGTGCATGGG GCTTCGCTTT GGTAGCTCC CATGGCTTC TTTTCCAAA AAAAAAAG AAGNCTTCAG GTT

SEQ ID NO:1190: (Length of Sequence = 365 Nucleotides)

AGTGTAAACA TTCACATATT TAATAGTACC TTAAATAA GCATTACTAC ATTTAAATG GTTCCAAAT GAATCTATAA
 ATGGTAATAT AAATTAAAA ATACGAACCT AAAGTGAATA AATTTTAACT CTTAGCTATG GTATAAATAA TGGTAAATG
 ATAGTGTACC TGTAGTCAT TAAATGTCT TAAAGATAA CAGCTTGTTA CCAGAACATT AGANACCATA GCCATGATT

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TCAAGCGNTA ACAATCTACA TTTGNTATTT NCTTGGCCAC TGCAITCTTC AAATGANTAA TAAATTTCCA GAATTCCCAT
TCCCATGGTG TTTTTCOCOA TAGANCTTTT TCACACTCGA TGTTG

SEQ ID NO:1191: (Length of Sequence = 303 Nucleotides)

CCCGGAGAGC TGCCITCCTC TTCTACCACG TGAGGACACT GCAGGAAGAC AGCTGTCTAA GAACTAGGAA GTGGGCCCTC
ACCAGACATT GAATCTGCGC TCCTTGAAC TGGACTTCCC AGCATCCAGA ACTGTGAGAA ATAAATTCAT GTTATTATA
AACCAACCTG TCTATGGTAT TTNTGTAGC AGCCTGCAGC TCTCTATCAC TCTGTITTAT AAGAGGCTGA AGTTTACTTT
ACCTCAGGCA GAGCTAAGCA AAAAAGATTA CATCCCGATT ACAAGATGAA AGTAAACAGA ATT

SEQ ID NO:1192: (Length of Sequence = 315 Nucleotides)

ACTCCAGCCT GGGGAACAAA CAAGCAAGAC TCCATCTCTA AATAAAAAAG AGTGTCCCC TAAGATGCTC TCGGAAATAT
TGTAGACTGG TGTCTCTCTT GGATGATGTT TGCGTCCAGC ATTCACAAA TAACTTGCT CTCTGGGAAA AAAAAAAAAA
TAATAAATAA AATAACAGT AAGAAACACC CATAAANCAA ATTTCTATGC TCCTGCAGCC TCTTTTGGCC TGAGCAAGTG
GGACCTTGGT ATACACATCA CCTGINCTN CCCTTTCTT TGAAATGIGG TGTTTGCTGT TAAATTGGGA TTGAA

SEQ ID NO:1193: (Length of Sequence = 313 Nucleotides)

CGAATTAGTG AACTGTGCTT CAGGTTCAGG AACCTGGTCT TAGCTCCTTG CCTGCTGAGA TTTGAGTTA CAAGTAGAAT
TCTCCAAAAG CAAAACACGT AAAAGTCATT TTNCCACTCT TTTGGTCAAG CACATGTAAG CTTTCAGGAC CAGGTGGTAT
GCGTINCTG AAAGTGAGAC ACATGCCCCA GGGAAAGGT AATTTTAAAA TTCTTCCCAT AGGTCTTCAT CCTGTTCCTC
TGCTATGTCC AGCATCCTTN AGTCCAGCT GCAGGGCCTA TATTTAATA CCTCATGCT TTATCGCTTT TGT

SEQ ID NO:1194: (Length of Sequence = 341 Nucleotides)

GATTTAAAAG CAAGTNATTT TNAAATCCAC GAAAGATGCC TACCTGGNT CCTNCTCTGG TCCTTATTAG CCACACCTCT
CTTGACAGGC AGAGGAGTTA GGAGTGAGG GATATTCCCA CCAAGACCCT ACAAATGCA CTCTTAGGCC ATGCCCTGGG
TACCCAAACT CTAGAATTCC CTCTCAAAG GGACCTTAAC CCAACTTCAG AGCCTATATA GGCCAATTCC TTGGTCCATT
TTCCAAGGGG TGGNCAAAGG ACAACCATTT TNGGGAGGNN GANGGAGTA GGATGAAGCT TTGNCACGT GGGTCTTGGG
CAAATCCAC ATATCCCGGA A

SEQ ID NO:1195: (Length of Sequence = 239 Nucleotides)

TTATTGATTC TTTTTTGAA ATGGAGTCTC GCTCTGTTNC CCAGGCTGGA TTGCAATTNC NCGATCTCAA CCCACTGCAA
CCTCGCCTC CGGGGTGGA GCGATTCTCC TGCTCANCC TCCTGAGTAG CTGGGACTAC AGGTGCGGCG CACCATGCCC
AACTAATTTT GGTATTTTTA GAGACAGGGT TTCTCCATGT TGGTCAGGCT GTTCTCAAGC TCCCAACCTC AGGTGATCA

SEQ ID NO:1196: (Length of Sequence = 291 Nucleotides)

CCATGCTTGG CTCAGGGCCT GGGGCGGGT CCTGGGTAGA GTCCTAGCCC CAGAGCCCCA GCGCCCTCATG TCCTGCGGCC
CCTCACTGAC CAGACGATGA TCGGNAACCT CTTGAGAAAA CATGGCAAAG GATTAGAAAA GGGCAGGGTG AAATTNCAA
GCCACTCAGA CGGAACCCAG ATGATCTTCA ATGCAGCCAA GGAGCTGGGT CAGCTGTCCA AACTCAAGGT TCACATGGTA
CGAGAAGAAG CCAAGAGCTT NACCCCAAAG CAGTGGCGG TTGTTTGAGT T

SEQ ID NO:1197: (Length of Sequence = 303 Nucleotides)

CTTCATATTT TTATAGCTGG GGTCAAATA TGCAATTTAA AAATAAATAT ATCCATTINC CTATTCTTAC ATTTATGAAT
ATAAAANTAA AATCTAAGAA ACATAATGCT GCCAACTAAT AGTAGTGGAG GAAAGGAAGC TGAGAGAAAG ATAAATATAT

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TANTTTAATC ATTACTCAGA AAAGGCAGTA AAAGATACTA TCTATAGCAG GCATCAATAA ATATGANCCA TGAGCCAAAT
CAGGCTTACC ACCTGATTTT NTAGGATAAA GTTCATTGNA AACACAGTTA CAGTGTCTTT CCA

SEQ ID NO:1198: (Length of Sequence = 318 Nucleotides)

CTCAATTTCT TCTCATCTTT TTATGCTAT TATTGTCTA TAAGTTACAT TCCTATACAT TGTGTGTCCA ACACAAATTT
AAAATTATGC CATTGTCTCT TAAGTCATAG AACAAAAGAG ATACAAACAA AACATACAT TATCCTGTCT TTTATATTTG
CCTATGCAGT TACCTTTACC AGTGTTCCTT AITTCINCAT GTGGATCTGA GTTACTGTCT TTNAACTTCA ATCTAAAGNN
CTTTCAGTCT GAAAGACTGT AATTINAATT TCTNGTAGGG GTAGGTTAAC TAATGATTAA TTCTCAGTAT TCTGAGGA

SEQ ID NO:1199: (Length of Sequence = 326 Nucleotides)

TCTAGTTATT CTGAGAACTA CAACCAAGAA AAGAGGGAAG CACCGGGTTG GCCAAGGCCA TCCGGAGACT TGTCTGTCTG
GGTCATTTAA AAAGCTTTTC TAGGATAACG TTGGCTTTCC AAGTGGTTTT CCAAGCTGAT GTCTTTCCCA CTGAGGAGAA
GCTGTAGGCC TGTGGACTGC CAGGTAGGAG GAGGTTGAGG TTAGAGGAA AGAGGAGAGC AGGAATGGGT TGTTCNAGT
GGGCTGTTC CCATGGACTC ACCAAGAAGA AATCGAGGTG CTGATGGGCG TGCACAAGTG CTTATCAGAA ACAGCTGTAA
CAAGTT

SEQ ID NO:1200: (Length of Sequence = 341 Nucleotides)

GGGTGACAGA GTGAGACTCA GTCTGCTGA AAAAAACAA AACATTGCTT TACAGTGTGA TTCCAGTTAC AGAGAATATT
CACATAGGTG CATAAATAAA TGAAAAAATT ATTGGTTAAT GTCTCTGTAT GTTGGGATTC TCAGTGATTT TTTTINCTA
CTTTINATTT TINATAATTC CTCCAGTGTG TTGGTGTAG CTTTATAGAT TATATCAAGT AACCTTTTGC TGCACCAAAA
AACCCCCCAA ATCTAGTGA TTAAACAAA ACCATCTTAC AATTTTNNIC AGAAGTGTCT AAGGCTGGAT ATTTACTGG
GCTCTCTCTT GAATGTGGGG G

SEQ ID NO:1201: (Length of Sequence = 312 Nucleotides)

GTCTTTNITA CCCTGCTAGC AATAGCTCTC AGTTTCAGAG GCACAGTCTT TGGAGACCAT TCAGCACTGA GAAAGCAATA
TTTAGAACCT ATTGCAAAAC TGGGCTGAG TTAGGCATGG TGATGAATGC ATCAGCAAGG AATAGAAAGT NCTTATCGTG
AAACCTTCA ACCTCAACTA TGCCTTCATA GACACACACG TTCATGCACA TGTAGGCACA TGTACCATCT CACATCTTTC
ACTTTCCCGA GATGCCATAT ACAATTACCT ACATTAATAN CTGTAGCACT ATACCTTTTT GAGCCCGAGA GA

SEQ ID NO:1202: (Length of Sequence = 344 Nucleotides)

GGAAATAGC CAGACTGGGT ATTATGCATG TAACAAATGA GGACATTGTG CATAAGAAAG GAAACATTAG TTTTCTGTCA
TCCTGGGCCA AGTACCTCAT TACAGTAAAT GTGTGTCTTT GGAACTCTT TCCTTGINCT GATGGCGGTA AGCATGGGGT
CCCAGGCAGG TTCAAAGGCT GAACTGTAG AAATGGGCAA GACAATACAT TTGTPTTGG AAGGAATTTT TCATGGGATA
AGTTTCCCAA AGCTTGAATT ACAGGCTATG AAATAAGCA AATAGATGGA GGAGAAAACA AGTATTGTTT TCAAAAAGGT
ACCAAGTCAA TTCTATTTAA AGGA

SEQ ID NO:1203: (Length of Sequence = 370 Nucleotides)

GTCTTTATC TTCTCTCTT TATGTCACT ATGTAATGTC CTCATCAITT TAAAAGTGAG TTGCTATTGG GCGGGCGGG
TGGCTCACGC CTGTAATCCC AGAATTTGG GAGGCCAAGG TTGGTGGCTC ACTTGAGGTC AGGAGTTCAA GACCAGCCTG
GTCAACATGG TGAAACCCAG TCTCTACAAA AAACACACAC AAAAAATTAG CTAGGCATGG TGGCACACAC CTGTAATCCC
AGCTACTCGG GAGGCTGAGG CACGAGAATT GCTTGAACCC AGGGAGGCGG AGGGTTNCAG TGAGCCCAAG ATCGTGCCAC
TGCACTCCAA GCTTTGGGGT GACCAGAANC GAGACTTTCT CAAAACAAA

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SEQ ID NO:1204: (Length of Sequence = 346 Nucleotides)

CTCTTTAGAA AGCCTGCCTT GGCTGGGCTT GGTGGCTCAC CTCTAATCCC AGCACTTTGG GAGGCCAAGG TGGGAGGATT
GCTTGAGCCC AGGAATTINA GACTAGCTGG GGCAGTGTAG TGAGACTTTG TCTCTACCAG AAAAACCGGG CGTGGTGGCG
CATGCCGTGA GTCCAGCTA CTGGAAGC TGAGGCAGGA GGGTTTGCTT GAGCCCGGGA CGTGGAGGTG GCAGTAAGCT
GTAATTGTGC CACTGTACTC CAGNCTGGGT GATAGAGTGA GACCTGTAT CAAAACAAA CAAAAACAA AACCTGCCT
TCTNGGATT GGGCTTCTGG GTTTT

SEQ ID NO:1205: (Length of Sequence = 292 Nucleotides)

TACAACGAGA CACTTGAGCA CACGGTACA CCCAGACATC TTGGGCTGC TATTGGATTG ACTTTGAAGG TTCTGTGTGG
GTGCGCGTGG CTGCATGTTT GANTCAGGTG GAGAAGCACT TCAACGCTGG ACGAAGTAA GATTATTGTT GTTATTTTTT
TTTTCTCTC TCTCTCTC TTAAGAAAG AAAATATCCC AAGGACTAAT CTGATCGGT CTTCCTTCAT CAGGAACGAA
TGCAGGAAT TGGGAAGTGA GCTGTGCAAG TCCTGAAGAA GGAGATTGT TT

SEQ ID NO:1206: (Length of Sequence = 336 Nucleotides)

TTGCCAACAC AGTGTGTCAT GTTATTGGG CTATTCACAG GTAAGCTTAA AATACAATGA AAAGAAAAGA CCAGACGTCA
TCAGGAATGT CGAGAAACAA AATATTTAGC ATTTCTTAGT TTCAAATGTT ACCATTTCAT TGCAGCTGAG GAATATAGGC
CATTCGTTGA CATAACTGCA ATGGGTGAGA CTTATTTTTA GCCACAGGAA GCAAATACAT TTAACCAATG ACTTTTAGGA
CAGGAAGCAA AAAAGAAAC AATATTTTCA TGTAGCAAG ACAAGANAAT CATTTATACA AATTAAAGTG GATATTAAAA
TACCATTATA AAGAGG

SEQ ID NO:1207: (Length of Sequence = 319 Nucleotides)

TGCCTCANCC TCCAGAGTAA CTGGGATTAC AGGCGCCGCG CGCCACGCCT GGCTAATTTT TGTATTTTTA GTAGAGATGG
GATTTTNCCA TGTGGCCAG GCTGGTCTCC AACTCTGAT CTGAGGTGAT CCACCTGCCA CAGCCTCCCA AAGTGCTGGG
ATTACAGGCA TGAGCCACTG CGCTGCCTC CATTTCCTTT TTATAATCA TCCTGAACT CCCTTAAGGT AGAGAAGCTG
TTTGATCGTC CCAGCCCTG GGAGGCTGAA AGGTAACCTN ACCAGCTCCA TGCTGAGTT TAGCACCTGC TGTGCCAGG

SEQ ID NO:1208: (Length of Sequence = 357 Nucleotides)

GAGATGTTA AAAATGAAGT GGAAGTTTTT TGTTTTTGTT TGTTTTTGTC AGAAAAAGA TTTTAAATGG CTGAATGIN
CTGCCATAGT TGCGTCAGAT TGTGAGAAA TTATGTTGTA CATCTGAGAG AGAAAAGAAG AGCCTTTTGA GGAGCTGCGC
TAAATTTATT TTTTGTTAG TCTCTTAACT CTTTGGCTTG AATGAGTCAT TGACTTTCCT TGCCAAGATA GGGTTAGCAT
TGTTTTGTG TTTTAAAGC AGGCCAAGG ATTGCCACGA GGGGAGACAA CCTGAGCAAC TGAAGGAAG AATTCTAGA
AATTGTGTTT ACCAGTTGTT TTAGTCTGAA TGTGATT

SEQ ID NO:1209: (Length of Sequence = 362 Nucleotides)

CCCATCTGCT CCACCCAAAG AAATCAGACA AAGTAAATTT TATTGAGACA GACAGAAATG CACCTACTCA GGACTACAGT
TAAGCATTTA CTAATTAACCA AAGAGTTGTG TTCACATTCC AGATAAGTCT ACGTGGAAAA GCATTGAGAA TTTACTAGGT
TTTINCTACA TCACTATTTT ATCTACAATA GGGACAACAA ACTGACACTC AGGATTTGAT GGGCTCTCAT TACAATGCTA
TACATTTAAC AGGNCNAAC ATCAGTGACT TTGAGGAAAA AGTTATAAAA NGACCAAAAC CACCCACTGT AGGATGGGCT
CTTGATGTT ACTGTACAGC GTGGGTCAAG GTAACAAGGA GG

SEQ ID NO:1210: (Length of Sequence = 349 Nucleotides)

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GAGAAGATAG TAGAGAAAGT CAGCGTTACA CAAAGGAGAA CCAGGAGAGC TGCCTCTTTT GCCGCAGCTA CCACCTCCCC
TACTCCCAGA ACTACAAGAG GTCGTAGGAA GAGTGTAGAG CCACCTAAGC GTAAGAAGCG GGCCACAAAG GAGCCCAAAG
CACCAGTCCA GAAAGCTAAG TGTGAAGAGA AAGAGACTCT GACCTGTGAG AAGTGCCCCA GGGTATTTAA CACTCGCTGG
TACCTGGAGA AGCACATGAA CGTTACTCAT AGGCGCATGC AGATTTGTGA TAAATGTGGC AAGAAGTTTT TCCTGGGAAG
TGAGCTGTCC CTTCACCAGC AAACAGACT

SEQ ID NO:1211: (Length of Sequence = 344 Nucleotides)

TTTTTTTTTT TTTTTTCAGG GAAGAGCTTT ATTGCTTCCA TGGGGGTGGC CTGGGACGGC TGCCACAGCT TGGGTAAGCT
CCTTGGGCGT CANITCCCTT TGGTCCAGGC TAAAGGCAGA ACCCAACCAC CTGGCAGINT TGTGTCTGAA ACCTAGAACA
TGTGGCAAGT TGGTGAGTCC GGGCCTGCGG TAGTCTATG GNTCAGCTGC AGCTGTGGAG GGGAGCTCTT CCCAGCAGGC
GGANTGGGCG TCACCTCTCT GAGCTTTAAA GTTCTTTCTG CTATAGCCCT GGGGCGGTCT TGTGGCTCC GAAGGAATGG
GCTCCAGGCT TCCCCATGG GACA

SEQ ID NO:1212: (Length of Sequence = 364 Nucleotides)

AAAGAAAACC TGGTATTTTC ACCATCCTCT CTGAAAATAA ATACTTTGAC TTGCACTGAT TACTACTTCA TCAGCATTCA
ACTCCGCTCC GTGGCACTCT GTGTGAATAA TTTTAAAGGC AGATTAAACA TTCTAAAAAT AAATTCTATT GGTAAATTAG
GATATCAGAT GCTTCCATTA TAAAAGCCTA TCCTATTCTG TACTCTCAGC TGGCAGTCAT ATCCAGATCT CAAGCTACTC
TGGCTCTTAT TGAACAAGAA CCTATTCCAG GNGTGAGGT TTTGAAGAGG GGATCTCTCA TGGTTAACTA GAGNCAGGAA
GAGGCAGAAT TGCCACATA CTCTNGCAGG AGTTAAATAA CAAT

SEQ ID NO:1213: (Length of Sequence = 302 Nucleotides)

CTAATTTTGT TATTTTGTAGT AGAGACGGAG TTCTACCATG TTGGCCAGGC TAGTTTCAAA CTCTGACCT CGGATGATCC
ACCGCCTCG GCCTCCCAA GTGTGGGAT TATAGGCATG AGCCACTGTG CCGGTTACT TTTTCTTTT TTAACAACT
GAAATTGCTG TATCTACCAC ATTAACATTT TATTTAAAAA AATTTGTAA ATAGCATATG TATGTAAATT TAATATTAAT
ATACCTCTTT TTTTGTCTT CTTTAGGTGG TTGGAGCCTA GGGATACTTA CTACTGATT TT

SEQ ID NO:1214: (Length of Sequence = 317 Nucleotides)

CTAATTTTNC AGACAGGTTT ACATGTAAAA GGCTAGGTAT TTAGCCACCT CAGCATTGAT TAGTTTGGGA TGTCTAAGCT
CTGTACACA TGGCTTCCCA TGGCTTCACT CTACAAAACA TATTINCAAC GTGAAGGNTA CATCTACAAG AAATCTACAT
TTCAAGGGTT TTACAAATCA ATCTTGATC TTTCCTCTGA ATTGACTCTC ACAGACCCCG TCCCCTGTIN ATINCCCTTG
CCCAGCTTAA CGGTCCAAAG TCTACTTAAA TGCAGCTCAA AAATGTTAAG ATTGGGCAAC AGATTTACAG TTCTGT

SEQ ID NO:1215: (Length of Sequence = 276 Nucleotides)

ATAAGGTATT AAACAATAT TCTTGACTT GANTAAAAA AAAATCAAGC TGGGTGCAAT TGCTCATGGC TGTAATCCCA
ACACTTTGCT AGGGTTAAGT GAGAGGTTCA GCCCAGAAGT TCAGTACCAG CCTGGGCAAT ATAGTGAGAC CCCTTCTCTA
CAAAAAAAT GAAGAAATTA GCTGGGTATG GTTGCATGTA CTGTGGNCCC AGCTCCTCGG GAGGCTGAGG CTGGAGGNTC
ACTTGGGCCC AGAAGGTCAA GGCTACAGTG AACCTT

SEQ ID NO:1216: (Length of Sequence = 354 Nucleotides)

GCATAGGCAG CCCCTGCTCT TGCAATTACC TCCCAGTGA ACTAGCTGCT CAGTCATGTC TCTGGAATAT GGAGTTGTGA
TCTAGAATTT AAAGATGGGA TTAGGTAACC AGTGAGGTCC CTCTACTGTC CAGTGTATGA CTCTCTCTT TGTAAATGTC
ATATGTAGGG TTCTGTACAC AGGACATTTT CTTCATTGTA GTTCTCAGA TGCATTGAGC TCTCCTGAAT GACTTAGCGG

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GGAGCTCAG TTGCAGCTGA CCGTATTAG GGTCTCTCC CATGTGCTG TGCCGCTCG TTAGCGTAGG ATTCTGCCC
CACGGCCCTT CCTGTTTTCT AAGGGCTGG CTTT

SEQ ID NO:1217: (Length of Sequence = 272 Nucleotides)

CTTCCAGCT TTGCTTGTT GTAAACAGCT GGCAGTGGT ACATCTATAT TTGTTAAGAG GCAGAGCACT GTATTTTG
TAAGATAAGG TGCTAGTCTT GGCCAGGCTG CCAAGCTGGG GCTNTTTAA ATAAAAGTTT TAAAGAAAA TTATAGCATA
ATAAATTACA CAATTTTATT GGAAACTGA AGGTGTTCAA CCAATGCTAG TTTTAAATA TATTAGAAA TACTATTCA
GGAAATTTTA ACTACACTCA TTAGTCTTAT GG

SEQ ID NO:1218: (Length of Sequence = 281 Nucleotides)

GTGCCCAGG CTGCAGTGA CTGTGCAAA CGCGGCTCAC TGCGCCCCA ATCTCCCACT CTTAAGCAAT CCTCCACCT
CAGCTCCTG AATAGCTGG ATTACAGGTG TGCACTGCCA CCCCCAGTA ATTCCTTTAA TTGTTTTTAT TTTTAGTAGA
GATGGAGTTT CGCTATGTTG TAAAGGCTGG TCTGGAAGT CTGGCCTCAA GCGATCCTCC CGCCTGGCC TCTCAAAGT
CTGGGGTTAC AGACGTGAGC CACCATGCCT GGGCTGCTC A

SEQ ID NO:1219: (Length of Sequence = 231 Nucleotides)

GTCTCTCTC CCTCTTCCC TTATTTGCA CTGCCCAGG CCAGGCAGCC AGCAGGGGAT GGGATCAGGA TGCAATTGTC
ATGGAAACGG TTGGGGATCC ACAGGAACGA CATTACATA GGGACATTIN TGAAAGCAAA GCAAGAATGA NTGCTTTCCC
GATCTCAGAC TGGCTGGATT CAGATCATG TTTTGGCTGG TTCTCATTTT AAGGGGTAAG CAGTTTGCTA T

SEQ ID NO:1220: (Length of Sequence = 409 Nucleotides)

AGTCACTCAG AACTTACTT TGCTTACAG CTCAATTATG TTTTGTGTAT TTGTTAAGAT ATTCCGTGTG ATGACATATT
TTGCCTTAAA TTINCTAATT TTCTGGCCA TTGCTTCTCT GTGATTGAA AATGTTACGG TAAGTGCTTA GTTGGAAAC
TATACTGTCA ACATATATG CATTACTTCA GCAGAGCTGT AGTCCATAA CATAATAAAA TGATGCTTTT TTTAATAAGA
AGATCATAA CATTTCATTA TGCCCTAAA GATGAACATT CAAAGTTCAC TTTCTCTTG TTTTGATATG ACGGATATAT
ATCAGTAAAA TAAAAATGC TGCAGNACCA ATATGCACTA ACTCAACAT GCTGTGGATT TGTAGGGGCA CTGAGGTAGC
AATGTCAAG

SEQ ID NO:1221: (Length of Sequence = 396 Nucleotides)

ATCTGAGATA CTTTGTCTC ATGAATAAAT TAGTTAGTAG AATCTAATTT CTAGATCCTT CATAATGGTA ATTGAGGGTA
AAAAATAATA ATGTAGTAGT CAATTTTAGC CCTTTAAACC TATGGGGAAC TGTATGAATA ACTGTTTGAA ACTGCAGGGT
AATCTGTCA CACTTGCAA CACATAGAAG CAACAAGACT ATTCTCTCTC ACACTTTAA TTAAATAGT GCCTGAGTAG
ACTTCCAGGG TAAGGTTTCA AATTTCCTT TCTAATTTCC CTGTTTAAAT GACCACTACT TTTAAAGCTA TGCTGGGAAT
TCACTTTCAC ATATATCTAA CTACAGGAA ATTTTGAAG AGCCTAAATG TCTATGGGTA GATTCAATGT TTCCTT

SEQ ID NO:1222: (Length of Sequence = 350 Nucleotides)

GTATTTTCTT CTGGGTACTC TTCATGGCCT GCTAGAGAAC TTTACTAAAT TATAGTCCAG TAGCTGGACA GAGCTGCATG
TGTATTGTCT AAGTCCACCT GTGCTGCTGG TCAAGATTAT TTGCAAGTGT TTGGTGGTGT TGAAGAGGAA TACTGTTGTG
AAGGCTGAGT CAACTGCATG ACAATNCTCA TGGCTCACTG GCTGATGAGT TGTGGCATGA CTAGAAAGCT CTGCTGTGAT
TCCCAGATGA CAAGTCACAC CTGAACAGCT GGATACTACT CGCATCCAAT TTGCTTCCAA GTTAACATAT TTNCAGAAAA
TATTTGGATT TGGAGTACAT ACAAATATTT

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SEQ ID NO:1223: (Length of Sequence = 370 Nucleotides)

ATAAGCATAT GANITTTATCT ATAGGCCAAG TTAATGACAT AACTACAAAG AAATGACTTG TTTCACATGT TTTAAACCAG
TGTTTTGGCT ATACTAAGTT AGTGAGACAT ATTCTAAAGA AAAATAGAGA CGCAAAGAAG ATCTTACACT TTAATAGTCA
ATTTTGTAGT TGTAATATTA CTATCGATCA TTTTGTAAGT CTCCTATATA GGGGTAGGA TGGTGAAAT AAGTAATTTT
NTTAATGTTG TTAGGAACCA AGGCTATCAG TGTAAATGA AGGAGTTACA AGCATAAGAT TGANAGACGG TAAGTAAAAA
GCTCATTAGT ATAGTTCCAA GTTTAACTTG TCAGGGATGA GCTCATGATT

SEQ ID NO:1224: (Length of Sequence = 188 Nucleotides)

ACATGACCNA GGCCTGACCA AATCAGACTA AATCCTANTA CCTATACCAG AGTTATTGAG AAAGATAAGN TTTGGCCTGC
NGGCCTTTGA CAGTGAAAGG NINTAGGCTT TGGAGCTCT CAGGGCCACT GCTTCAGGGA ACCTTGCTGA CAGTGAAGCC
AACACAGATG AAAGCAAGGC CAAACATT

SEQ ID NO:1225: (Length of Sequence = 353 Nucleotides)

CCCCAGCCAA GGGAGGCAGT NAGTNAGTGT GGTACCCAGC GTGGGAAACC GTGCTTTTTN CCATGGNACT NTGCAACCCA
CGGATTAGAA GATCCCACTC AGGAACCCAC GNCACCTGNA CCTAGAATGC CAACCCAGA GCTGCACAGA TTCTAAACAA
CCTCTCANCT GGAATCTGCC TAACCCCTGCA GAGCTCCTGC GGGGAGGGGT GACCAGTGCC ACANCTGCTG CTGCCTGCTG
CCTAAGCCAT TTAA

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CAAAAAGTGA GAAACATG TAAACGTAAG TNATGAGGTA TTTCATAGAT ACAGTGCCCA TACAAATNCT CTTTCCACAA
ATTTTCAACT GCCAGATCTC TTGCTTTAGT CTTTTNCTT TATATTGGA GAAACAGAAG AGTTTGACAT AAAAGTCCCT
TTGAGGATGT GAGGGTTGCA GTAGTTTACA GCAGGGTCAG AAAATGAAAG TAATAAAGCA ATATTTACAT GTTTTGTAT
AAGACCAAAA ATATTTCTCT AAAAAGTTGT TAAAGTTT TTAGTCTAT AAACACTCAC TTTTATAGGG CACATGATTG
TCTGTGTGAC TTCTCTTCC AGAGGAGGAC TTT

SEQ ID NO:1227: (Length of Sequence = 352 Nucleotides)

GGCATCTGTT TTTTGTGTTG TTTTGAGATA GAGTCTACT CTGTCGCCAG GCTGGAGTGC AGTGGCGTGA TCTCGGCTCA
CTGCAATCTT TGCTCCCGG GTTCAAGCGA TTCTCCTGCC TCAGCCTCCC AAGTAGCTGG GAGGTGTGCA CGCCACCACA
CCCCGGTAAT TTTNGTATTT TTGTAGAGA TGGGGTTTCA CCATATTGGC AAGGATGGTC TCAATTTCTT GCGCTTGTGA
ATCCGCCCCG CTCAGCCTCC CCAAGTGCTG GGATTCCAGG CGTGACCAGG GCGCCCGGCC GGNATCTGTA GATTTTAAAA
GGCCCCAGTG GTTCINATGC ACACCCCCAG AG

SEQ ID NO:1228: (Length of Sequence = 387 Nucleotides)

AGTTTTCCTA GATTGAGTGA CACTATTGTA ATGAGAATCT TCACTGGAGC ATCAGAAGAA CTGATTTCAA GCCAGTTTGT
TTGGTCAGCA CGGTCAAAAC TTCAGAAGAA TCTGTGCTC TGAGGCTTTC CAAAGCTTTG TTCCCCAGGG CAGTAACAGC
TTCCAGTGTG GGCAGAGTCT TTAGTATTAT CACCAGGGCA GCTGCACGTG GGCCGTGAGC CATCTTTCTC TTTTAGTACG
ATCCACCTG TCAGACTTCT TGAATTGCA CTTCAAATTA GAGCCACAAT CAAATTATCA GTCACGNTGT TTATTTTGTG
CACCAGAGAA AGGACAGAGT CTGTTTCAGC AGAGTTTGA GCCAGGTACT GATCTCTCTT CAGCAGG

SEQ ID NO:1229: (Length of Sequence = 366 Nucleotides)

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CTGATAAGGA GGTAAATTCA TAGGAGCTGC TAAGATGGGC ATGAGGNTCA AACTGCAAAG CACCAACCAC CCCAACCAACC
 TGCTGAAGGA ACTCAACAAG TGCCGGCTCT CAGAGACCAT GTGCGACGTC ACCATTGTGG TGGGGAGCCG CTCCTTCCCG
 GCCCACAAGG CTGTGCTGGC CTGTGCAGCT GGCTACTTCC AGAACCTCTT CCTGAATACT GGGCTTGATG CTGCCAGGAC
 CTATGTGGTG GACTTCATCA CCCCTGCCAA CTTTNNAGAAG GTTCTGAGCT TTGTCTACAC TTCAGAACTC TTCACAGACC
 TGATCAATGT TGGGGTCATC TACGAGGTAG CTGAGCGTCT GGGTAT

SEQ ID NO:1230: (Length of Sequence = 343 Nucleotides)

AGTGGAGAGA AGCCCTATGA ATGTTTGTAG TGTGGGAAAT CGTTTGTCTG GAGCACAAC CTCATTGAC ATGCCATTAT
 CCACACTGGA GAGAAGCCCT ATAAATGTAG TGAATGTGA AAGGCCCTCA GTCCGAGCTC GTCCCTCACT CAGCATCAAA
 GGATGCATAC TGGGAAAAAT CCCATCAGTG TAACAGATGT GGAAGACCT TTTACAAGTG GACAAACCTC AGTTACCCCTT
 CGAGAACTTN TTTTAGGGAA GGACTTTTGT AATGTAACCA CTGAGGCAAA TATTTTTCCTA GAGGNAACAT CTCCTCTGTC
 ATCTGATCAA CCATACCAAA GAG

SEQ ID NO:1231: (Length of Sequence = 406 Nucleotides)

CTCTGCGCGG GCAGCTTGA GAAGGCGCAA TACTCTCCAG CTCCACCGTT ACTTCAGCAT GGCTGGGGAG GCCTTGGAAA
 ACTTATAATC ATGGTGAAG AGGAAGCAAA CATGTCTTC TTACATGAC GGCAGGAAG AGAAGTGTG AGCAAAGGGA
 GGAAGCCCC TTATAAAACC ATTAGATCTT GTGAGAACTC ACTATCATGA GAACAGCATG AAGGTAACCG CCCCATGATT
 AANTTACCTC CCATGGGCTC CTTCCCGCAA GACGTGGAGA TTATGGAAAC TACAACCTCA GATGAGATT NGGTGGGGAC
 ATAGGCAAC CATATCAATG TACATGTGTC TTTATGGTAG AATGATTAT ATTACTTTAG GTATATAGCC AGTATTGGGA
 ATTGCT

SEQ ID NO:1232: (Length of Sequence = 380 Nucleotides)

AGACCATCAA AGGCCAGAG GAGAGACTCT TGGGACAAAT AAATATTAA AAGCAGTTGC CTATGAGAAA ATGGAAAAAG
 CCACAAGCAA AGGTAAGATC CATGCTCCAA AAAGSCCTGA GAAAATCTTA AACCTTCTCC TCAGATTGAT CCCAAGCTT
 AGAACGAATA CCAAGATAAT AGCAAAAATC CTCCTGGAA AAGAGTCAGT CTGCAAAAAC CGGAAAAGGA GGTGTGTTTT
 TCCACAATGC CTAATTTCTA ACAACAACAA CAAAACTCA GAAACATGG CCAATAAGT GGAAGAAAAT AAAGTGACGG
 AAACCTTCCC CGGAGGAAAC ATAAGCTTCA GGCAAACTAG ACAGATTTTA GACTGTCTAA

SEQ ID NO:1233: (Length of Sequence = 357 Nucleotides)

TTCAAAGTTT ATCACAACCA CCACATCAA GACAGCAAAC CAAAGGGSCA TGGTAAAAGA AAGITCCAGT GACTCTGGAT
 TTGGTTCTAA TTTAATGCA ACTTCTGAT TGAGTGCAGG GTCAGACTA CTTGGAAGTG GCTTTGGCGT TTCANCGGTG
 GGTAAATGGAG ACAATTGCCAA ATTTATATTC TGTAATTTTN CGTTGGGTGA GGGGAGCATT ACATCATTTAT ATAATGGTAC
 TTCTCAAGT TGCTGGTCAT CAGTTTCTGT GTCTGTGCTG CCAAATCTA AAGATATGAT TGTNICTCCA GGGCTGGGG
 CCAGCAAAGT TAAAGCATCA GGTTCCTTCT TAAGTTT

SEQ ID NO:1234: (Length of Sequence = 313 Nucleotides)

CCAAGAAATC TTAATNCTT TATGTGTGA CTTTTGACT CAACAATTTT TTAAAACTT TTTGTTTTTT NCTGAAACGT
 TCTTGTGTGT ATGAGCCTTT TGTTTGTGNC TCGTTAAATG CACTCGACCC AAAATGTGTT TGGCATATCG AAAAGGAGAC
 CAAGGAGGGA GGGGCTGGGG CGTGGGAGGT GGGGAGGAGG CCGAATGGA CAGAAAGTTG AGGATAAGAG AAGAGGAACA
 TAGAGACAGC CAGAAAGACA TGGGGAAGA GTGTTGGAGA CAGAGAAAGG GGAAGGCAAG GGAAGCCAA AAG

SEQ ID NO:1235: (Length of Sequence = 386 Nucleotides)

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CTCTCTCAGC ACAGCCTGGG GAGGGGGTCA TTGTNCTCCT CGTCCATCAG GGATCTCAGA GGCTCAGAGA CTGCAAGCTG
 CTGCCCCAAG TCACACAGCT AGTGAAGACC AGAGCAGTTT CATCTGGTTG TGACTCTAAG CTCAGTGCTC TCTCCACTAC
 CCCACACCAG CCTTGGTGCC ACCAAAAGTG CTCCCCAAAA GGAAGGAGAA TGGCAGCCTC CACATCTCGG GTTCAAGTGA
 TTATCCTGCC TCAGCCTCCA AGTAGCTGGG ATTGCAGGTG TGCACCACCA TGCCTGGGTA ATTTTGTAT TTTTAGTAGA
 CACGGTTTCA CCATGTTGGC CAGGCTGGTC TGGAACTTCT GAGTGTAAAT GATCTGCCCA CCTTTG

SEQ ID NO:1236: (Length of Sequence = 401 Nucleotides)

AGGATGTACT TCTAGTAATG TCACTGAAAG CAGATATCAA AATTCAATTAC CAGGAGTACT TTGCTGTGTA ATGGTTCCTG
 TGCCATACAG AGATAAGATG GAGTCTTTGG AAAGTTGTTT CTTTGCCACT TCTTCTGATT TTNTAGTTTG CTCAGTGAAT
 AAATCTAGAT CCCAGATGT TACTGTAGAC AGGGTTCAG CTGCTGGTGC AGAGGGTGTG CCTGTAGACA AACACCAAAA
 TAAGCTATCA AATTCTGCAT AGTAAAGCGC ANTTAATCCA TTACTTAAAA TCCAAATAAA GTTATAAAAT TAGATAGGAA
 TCAAACAATT GTAGAAGGTA AAATGGTGCC ATTCAAGAGG ATCATTACA AGCCAGCCC ATATAAAACC ATCTACAATC
 A

SEQ ID NO:1237: (Length of Sequence = 372 Nucleotides)

TTAACTCTTT CTNCTCTCA GTCGGATTAT AGAGTTGGAG CAAATGTCAT GATGANTTTT NAGGCCTAGG CCTGGNCTCT
 TGAGGTGTGT GTGTGTGTGT GTGTGTGTGT GTGTGTGTGT TTCTTTCTCC ATAATAGTCC CAACCCATAA CAGGGGTATG
 GCACAGTACT TCTTATGAAC AAAAGTGCTA TTGGTCTACA AGGGGACTTG AGCCTGCACT AATTGTATTT GATTAGGATT
 TTGTGTCTGT CTGTATGATG TTTAACCACA CIGTCAATTA CAGACTTCCT TTAAGGAATT TCCAGGAAAC CCCCTTACCA
 TAAGAGTTTA AATTAATAGT TTNCTAGTTT AATGACAGCA GTTGGTAAAG GA

SEQ ID NO:1238: (Length of Sequence = 304 Nucleotides)

GGACAAAATT CCAATTATG TAAATGTAAA AGAAAAGACA ACAAATAA GCTAGAAAGA TGAAAGCTAA AAATTCTATT
 TGAAGTATGT AAGATGATGA CAGATATTAA ACAGTAATTA GTCATGAAAC AATCATTTAA ATGCTTTTNC CAGGGGAAGT
 GCAGAAGTTG AGACCTCAA AGAGCATGCA AGCTAGTAGG GAGGCTGCGA CTCATACCTT TGAATCTTTC TGTCTGCAA
 ATTCTCAACT CTTACCAATT TAACTCTGCA GTACTGCTAT GGAAATTACA TAAGAGTAAA TTGG

SEQ ID NO:1239: (Length of Sequence = 389 Nucleotides)

TGTTATAACT GGCACITTA TTTGTTTTTG GAACTAGAAT TTAGGGGCAG TTGGATGAAA TTGCAAAATT AGAAGGGGAA
 TAAGAATTC CTAGTGCTAT ATAAAGAAAT GATGATGGAG ACAAAGCCT TGCTTTCTC TTTTATAGAT TTATTNCGA
 TTTNAGCAT ACTGTGGGGC TTITAGAGCT AATATGATCT AAATNCAGAA AATTTAATTT TCATAGTAGG CCAGGTGTGA
 ATTACTTATG TTTGCTATAG AATGCTTATT TAGACTAACA ATAAATTTAC TTTGCTTTCT AAGGCCAGTC AGCGAATGTG
 GGGATGAGGC AGGATGTTTT AAATGAGCCA GAGATGATCC NCAAGGGGAA CAGTCGACAC AGAGGTCTT

SEQ ID NO:1240: (Length of Sequence = 365 Nucleotides)

CTCCAGCCTG GGCACACAG CAGACTCCG TCTCAAAAA AAAAGCCTTC CTTGCCAGGT GAAAGCAAGA GTGGTATGGA
 ACATTTATTT AAACATAAGA AGCAGAAGGT TCCTCTCTT GCAAGTATGT TTTCTCTAAA TGTAGCATTT CCACTGGAGG
 AGGTGGTCTG GGTGGATGTT TAATATGTGA GGATTGTCNA GCCAGGCAGA TAACCAGGCC TCTGCATATA CAGATACCCA
 CAGCCAGGA ATCTGTAGAA CTGAATGCC CATAACAACC TCTGGCACTA TCGAGCTGC AGGGAGGCTT GGCTGGGGCT
 ACTCCAGTCT CAGGCCCTG TTTTATGCGG GAAGTCACAA GGAGG

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SEQ ID NO:1241: (Length of Sequence = 350 Nucleotides)

GGGGAGGCGG TAGGGTCTGC NCTGTCTGTN AGGGGCTTGT GGCTGGGCGG GTGGGCTTTG CATGGTCTCG CCTCTTGAGT
 CCAGCCCCGT CCTGATGGGG CAGACTTCTG TNCGTNCTGC TTCTGGGTG ATGTCAATAC TGAATGAGAG GGCAAGAGAA
 GGGGAAAGGG AACCGCCCAT ATGTNCTTCA CGTGCTGCAA GGGGCTGTIN TGGTTCCCAT GAAATGGTCA GCAGAGACTT
 TGGGATGGGT ATGACTCGTG GGTACAGGG TTGACTAGAC AGAATCTAAA GAAGGTGGGT GCTTAGCTNG GAAGTCTTCA
 GTAGGAACGG ATCACTGTGA AGCTCTAGGG

SEQ ID NO:1242: (Length of Sequence = 392 Nucleotides)

CTCTTACGAG TGAGGTTAAG TATTGAACAG ATATTTAAAA GCTATAAGCT TTAAACAGA ATAGGCATAT TGCTGATACC
 AGTATTTGAC AACCGCCTTG TTTTTCAGA TAAGAAACT GAAGCACAGA GACCATAAGG CATCAGCCTA TGGTCATTCA
 CTTCTGGTA GTGAGTGGG AGGTACACC AAGGCCCTCT GGCTACTGAT AATCTCTGTA CTAGGCTGCT TTTCACTAAA
 CTCTGAATG AATGAAAGAA AGAACACATA CTGTTGACTT TTGAACCTGA ATCTAAACAA AACCTATGTT GAACCTTAAAG
 TCTGTAATCT AAGAACTATC AAACCTTAAAC TTGTTACAAA AGGNGGTGAT GAGCACAAACC ACTTTCTTTT GG

SEQ ID NO:1243: (Length of Sequence = 377 Nucleotides)

GTGGGGCAGG CGTGAGGTAG GGTGGGGTG GGGATGACAG TCAACACAGC TTGGACCAGA AGCCCATGGC GCCTGGNTCC
 CTGGAAAGGC ACAGGGCACA GACGGATGCC GCCTTTNITG CTGGACACT CCTGCCACCA TCCACAGCTC CCCCGTCACT
 CCACGTTCTT GTACTTGGTG AACAGGTGT AAAGAACCCT CAGGGTGGAT TTNAGGTCCA AGTTAACCAC GTCTTCAGGA
 CGAGCCTTGG GTTNTTNAG GCTCCGTCC AGCATCAGCT CAAAGGCGAA GGACACATTN TGGACCTTCT GATCGAAGCT
 TTCCGGATC AGGTAGAAGT GTGGAGAGG AACAAAGTAG TCTCCAGAA GGCCCAT

SEQ ID NO:1244: (Length of Sequence = 312 Nucleotides)

ATTTTTCAT CAATGTTTAT CAAGGATATT GGTCTAAAAT NCTCTTTTC AGTTGGGTCT CTGCCAGGCT TTGGTATCAG
 GATGATGCTG GCCTCATAAA ATGAGTTAGG GAGGATTCCC TCTTTNCTA TTGATTGAA TAGTTTCAGA AGGAATGGTA
 CCAGCTCCTC CTGTACCTC TGGTAGAATT CGGCTGTGAA TCCATCTGGT CCTGGACTTT TTTTCTGTTG GTAACTTATT
 GATTATTGCC TCAATTCAG AGCCTGTGT AGGTCTATT AGAGATTCAA CTCTCTCTG TTTTAGTCTT GG

SEQ ID NO:1245: (Length of Sequence = 320 Nucleotides)

GGAGATCGTG CACATCCAGG CCGGCCAGTG CGCAACCAG ATCGGGCCA AGTCTGGA AGTCATCAGT GATGAGCATG
 GCATCGACCC CAGCGCAAC TACGTGGCG ACTCGGACTT GCAGCTGGAG CGGATCAGCG TCTACTACAA CGAGGCTCT
 TCTCACAAGT ACGTCCCTCG AGCCATTCTG GTGGACCTGG AACCGGAAC CATGGACAGT GTCCGCTCAG GGGCCTTTGG
 ACATCTCTC AGGCCTGACA ATTTCATCTT TGGTCAGAGT NGGGCGGCA ACAACTGGGC CAAGGGTCAC TACACGGAGG

SEQ ID NO:1246: (Length of Sequence = 275 Nucleotides)

TTTTTTTTT TTTTTTTTT ATCTGACAGC AATAGATTTA TTAAGTATCC CCGAAAATAT AAACACAAAC CAGTAAAAAA
 CAAAACCGTA AAACGTCAGG CCTGGAGCTG CAATAAGACA GAGACAGGAG CAGCTCACAC GTGGCCTAGG TGGGGAGGAC
 GAGGCCATAA ATACTGCAGG AGGCGGCAA GGGAGCCTA GGGGAGGGG AAAGCAGGCT NTGGCAGCG AGATGGCTCC
 GGGGTTTAG AACTGCTGG CTTCGGCCCC GCGCG

SEQ ID NO:1247: (Length of Sequence = 384 Nucleotides)

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GGTCTTGCCG GAGAAGTACC CCCCTCCAAC CGAACTTTTG GACCTGCAGC CCTTGCCCGT NTCTGCTCTG AGAAACAGTG
CCTTINAGAG TCTTTACCAA GATAAAATTTC CTTTCTTCAA TCCCATCCAG ACCCAGGTGT TTAACACTGT ATACAACAGT
GACGACAACG TGTTTGTGGG GGCCCCCAGG GGCAGCGGGA AGACTATTTG TGCAGAGTTT GCCATCCTGC GAATGCTNGC
TGCAGAGCTC GGAGGGNCGC TGTGTGTACA TCACCCCAT GAGGGCCCTG GCAGAGCAAG GTATACATGG ACTGGTACGA
GAAGTINCAG GACAGGNTCA ACAAGAAGGT GGTACTINCTG GACAGNCGAG ACCAGCACAG ACCT

SEQ ID NO:1248: (Length of Sequence = 225 Nucleotides)

AATTTGGAGA AGATAGAAGT TTGAAGTGA AACTGGAAG ACAGAAGCAC GGGAGGGCGA AGAAAAGAAT AGAGAAGATA
GGGAAATTAG AAGATAAAAA CATACTTTTA GAAGAAAAA GATAAATTTA AACCTGAAAA GTAGGAAGCA GAAGAAAAA
GACAAGCTAG GAAACAAAA GCTAAGGGCA AAATGTACAA ACTTAGAAGA AAATTGGAAG ATAGA

SEQ ID NO:1249: (Length of Sequence = 393 Nucleotides)

CATCTATAGT CCATACATAT CTATAATGGA CAGAAATATG AGAATGAATA AGCAAAGATA CTTATGTACA CCAATAATAA
AGTAAGAAAG GTAAAAAAT TCATGTAATA AGAAAAAATA ACAACCCAGA AATTTAAGAN TTAAGTAGTA GTCAAATCTA
ATTGGAATAA CTCACCTATA TAAANACAA GAGGAAGGAA ACTTTATACA TAGGTCTGGA AAATATCACA ACTATGTTCC
CAGAAGANTG TTTATCTCCA CAGCATCCAA CCTAGTGTC TGCACACAGT TGGGACTCAG CCACTGTTCG CTGATTGATT
ATGAAGNCAG TCACTGTGAT CAACCCAACA GTAATTGAAC GTTCATTTTT AATANGGTCA GTGTTAAATC TGT

SEQ ID NO:1250: (Length of Sequence = 391 Nucleotides)

CGTATGTATC TTTNATTTAC ACTGCACACC TTGCAGCATC CTTACCTTGC AGAGTACTGA GTCTGGCTT CATGAATTIN
ATGTCAAGTA AATGGGTTTT AGTCATCCCT AGTTCATGTG CATGTINCCGA GAAAAAGGG AGCTTCTAAA ACATGTGCGC
AAACCACAGG AAACAGTGCA ATCCTGTGTG TCCTCTATTC CACTTACTCC TCAAGGCCCC AAGGTAGGAC GCATGTTTGG
TGGCTTTCTG GCTTACAAAT TCCAGTGCCT ACTCCCATTC CCTCAGAGGT TTGCTGTGAT CACTGAGGGG AAGCAGAATG
GAGCATCGTG TGGTCTTAC TGGAGGACTC CTTGCAGCAC CTGAAACAAC CCAATGTTGT TAGAGGCAAA T

SEQ ID NO:1251: (Length of Sequence = 320 Nucleotides)

GCCTCANAAG GTCCTTCCCA GGCTTCTCGC AAAGGAAGGC ACTGCCTCTN CACACCTTGT GAAACCTTTC CAGGACCTCC
CAGTCAGAGG CGTCTGGTT CTAAGTCTCT GCAGAGCGCC CTACAGCCTG TCTGTGGGTG AGCGTGTCTG TNAACTCTTG
TCCATCTCTT CTGTGATCTG TGTGCTCCTC GAAATAACTG ATTTTINTCTC ATACACCTTG GAATCCTGAG TCCACAGAAC
AGAGGCTCAT ACAAAGGAAG CTTTCAAAGA GTGCTCATCG ATTTCTAGGN TTCTTGAAGA CAGGCACCAN GTTTTGTCT

SEQ ID NO:1252: (Length of Sequence = 367 Nucleotides)

CAAAAAACA AAACCAGTTA TGCAAAAAACA AGAGTACAAA ATGCCCTTTT CTGAAGCTCA GTTTGAGAAA CTGATTTGCGN
ATCTAGCITA TTGATTATAC TCAGTTTCAA TTCTCCCTGT GCAAAATAATA CATAAAGTCA TTAATGATGA TTTGATGANC
TGAAATCATC TTGCTTAGG ATCGTTTGAC ATCATAACCC AAATATAAAA AAGTTATTCA AGATTACAG AGATAAAAA
GTGCCTCGGA AACATAATT ACCCATGTAT ATATAATANT TTTNGACAT ACTTTTAA CATAAAATCA CAGTCAAGGC
AGTGATAGCA TTGCATCTC AGTGCAATTAT TTCATGTAGT GCCTTCC

SEQ ID NO:1253: (Length of Sequence = 393 Nucleotides)

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TTGCTTTCAA GACAACACTC AGTTGCTAAA CCCATTTCTT TTCTTTTAGG ATATTTTCAT TGCTCCGAA TTTTAGAGCT
 GAAAAGTGCC TTAGAGATCA TCTAGTTCAA CCTCTCCGTT CAAATGGAGA ACCTGAGCCA CTAAGNTTCA CAGGNGAGTA
 AGATAATTGA GCAACAACCT CCAAGTAATG ACAGAAAATT ATAGGAGAAT CAGTACAAAC TGTGAGAATT TACTATGTTG
 TTAGCATCCT AAGTATGAGT TTAGAAAAGG TAGAAGTTAT AAGAAAAGTT AAATTGTTTT AATATGAATG GGATTCCACT
 GTTACCTTCA NGNTAAAATG GAGACATACT TTTTNCITTA GGTATTATAG TTAAACGAAT ATTGTATCCN GTG

SEQ ID NO:1254: (Length of Sequence = 377 Nucleotides)

CAAAAGCAAG GAGATGAGTT GAAAGACAGT TTTCNTTTAA GTTCATCAGTA TGGGATGTCA GCAGAACAAA AATTAAAAAG
 ATTAATTTNC CTTTGTGCTT AAAACTTCCT TAGTTTGAGC AGTAGGTGCT ACAAATTAT TTACATATCT TAGTATCATA
 GTTAAATGTA ATGTGTTTAG GAGAGGAAAA CAAAGATAC ATTTCNTTTA AATTCATTAA GAAATTTTCA AATTCACCTT
 GTAGCCCATG CTCNATAGAA TTGGGCTGTG TTGGTACATT TGAAACACTG TTTATGTTGC TTGAAACACT TATTTNTTTA
 ATGCCCGATG TGATGATGCC TATGGCCGAG ATCANATATA GCTAGATGG CTAGGCT

SEQ ID NO:1255: (Length of Sequence = 307 Nucleotides)

ACAAATGTTA GCCTTCTCTG GCCTAGAAAA AGAATAGGNT CATCAAGTCA TAAAACGAAG TATGINATIT CAGCACCTCC
 ACAAATGGC TTCATCAAAG AAGAGAATCC CATCACATGT TACCTCTCCT CTCTAGGTTC TTCAGCTGGG GCCTTGCTG
 CCCCTCTACC TATGGCAGAA CCCACTGACT CGTGGNCTTT CCAGCACTTC CACTTGCCTC CATTAGACAC TTAACCCGCG
 TGNCOGCTGC CTCATGCCAG GGAGGGCCAA TCTCCAGNCA ATGCTNCTGC TGGCTGTATG ATGACTG

SEQ ID NO:1256: (Length of Sequence = 326 Nucleotides)

TTGAGAAAAC TGCAGAAGCT GGAAGGTCAA TCTCTGACCT TCTTTCTGA GACACCTTCA TGTGACAGGT GTCCCACTTT
 ATGCTTGGAG GGAAGGAATG ATAACACAAA GATACCAAGA AGAATGTGAA GAGACCTTTC TCAGTTCCCC CCAGTTCAAG
 ACCATTATAT CGTACCCACT TTGTCTAAT CANGCTTCTA TATGACTATC CATTCTTTAT CAAACTAAA CATAGAAATA
 TACGATTATC TCAATTTCTG TCITTGNTTC TGAAGGCTCC TGTGTCACAT AAAACTTACA TTAAATAAAT TTGTATGICT
 CTCCTG

SEQ ID NO:1257: (Length of Sequence = 224 Nucleotides)

TTTTTTNAGA GGGATTCTCA CACAGTCACC CAGGCTGGAG TNCAGTGGCG TNATCTTGGT TCACTGCAAC CCTGCTTNC
 NGGTTTCAAG CGATTCTCCT GCCTCAACCT CTCGAGTAGC TGGGACTACA GGCACCTGCC ACCATGCCCA GCTGATTTTC
 CTGTTTINAG TAGAGACGTT GGCCAGGCTG GTCTCTTAAC TCCTGACCTC AGGTGATCTG CCGG

SEQ ID NO:1258: (Length of Sequence = 329 Nucleotides)

CAGGGGTTTC TTTCCTTACC CTTTGTGAAA ACCAATCAAT TACTAGATGA GTGGATGGAT GCAGAAAAAT CTGGGCTGAG
 CCAAAGTCCC TTTTGGAAAT ACAAGCCATA ACATTGGAAG GACATCAGCG ACCTTGGCTT GTTTAGGTGA TTTTNCITCC
 AGCTGCAGGT AGTCTTGACA AGGAGCGTTT AANCAGAAGG CTCAGATGC ATTCTTGTG TAGGTGGGNG AGAGCACTTC
 TAATGTTAAG TGGGGTACAG NTCAGCTGCC CCCCCAGTA GCCTGGACAT CGTCTTNTCC CCATAATCCT TNNCATCCCT
 ACAAGGTCC

SEQ ID NO:1259: (Length of Sequence = 374 Nucleotides)

GGTCATATGT TACATGCATG TTTGINCAAT ATGTGTATGT CAGGNCCATC TTCACAAATT TNCATAGCCC CTCTGTGAT
 CTGTTAAATA GGTATATTTA GCCAACCTC TCAGCATAAA GCTCTACCC CAGCTGCTCC CCTTCCAAG TGCTGCATC

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TGCTCTTGGC TGGGAGCTCG CTTCCCAGCC TGTAGGATGG CCACCTTGAA GGCTGTAACC CTTTGAAGA AATAAGTCT
 CCTTTTCTAA ATTTATAGAT TGTATGATTG TTTTAAAGTA ACAATAGCAA TGGCATTATC ACCTCACTTT CTGTGTGTGT
 GCTTAGCATA GTACCTGACA CATGGCAGTT GAGTTGGTAG CTATTTTTTA ATAT

SEQ ID NO:1260: (Length of Sequence = 353 Nucleotides)

CTCAGTCAAA AATAGCAGCT GCTGAATTAG CATGGGCATA CCAGGCAAAT AAGCCTGCAT TGTCATAGCG TTCCCTTGAT
 TGCNCTATGA AACTGAGTAA AGTTTCATTT CCTGATTCAA GAATTGCAGC TAAAATATCC TCTGGACAAA GAAGAAGGGA
 AATTTTTTGA TAACAGATGT GTTGACTCCT TACAGTATAA AGCCAATTTT TGTCATATCT CACCAACAAT CCTGGTTTCT
 ACAGTACATC AATTTTAAGT AATGTGCCAA ATCATGGCAG CAAAAATATG TTCCCTCTAG CTGTTAGGGA CTTTGACTTG
 NAAAACAGGN GTTTCAAATC ATCTTCTTCA TTT

SEQ ID NO:1261: (Length of Sequence = 294 Nucleotides)

TTAAACAGA CAGCTAAGAT TATAGGAATA TTTTAAATA ACAGCATTTA TTTTAGACAC ATTTCAAATA GAAGCCACAA
 TAATCAAATA GATATATCT GAAAACGTTT CAAAAATATT AACCTTTTAA ATGTTCTTCT CTGAAAAATT AGTTTATCTT
 TAACAAATTA TTCTGAATTA TTGTGTCAAC ATATAAGGTT ATGCATATAT ATNCACTTGC TGGTCTCTAT GTTAAAGCAA
 ACTAGGTAAA AACTAGAGGA AATATCTGGA NCATAAAATG GTTAAACAATT TACG

SEQ ID NO:1262: (Length of Sequence = 292 Nucleotides)

ATGATGAAGG GTTGGAGTGA TGCACCTAGA AGTGAAGGAA TGCCAATGGT TGCCAGCAAA GCACCAGAAA CTAGGGAGAA
 ACAAGGAAGG ATTCTNCCAC AGTTTCAGAG GGAGAATGGC CCTGCCAACA CTGTGATTTT GGACTTCTGG CCTCCAAAAC
 TATGAGACAA TAAATNCCGT TTGTCTTAGA CCACCCAGTT TGTGGAATTT TTTTACAGCA GAACTAGGNA ACAAATACAG
 TTTTTTTTTG CAGTAAAGAA GTTTTAAATC TGGGTTATGT CCAATGTATC AA

SEQ ID NO:1263: (Length of Sequence = 303 Nucleotides)

GGTTGAGGTT GTGGGTAGGA TGAGAAGACG ACAGGATGAA TCTTACCCC CAGCTTTAGT GGAATTCTGT GAAACACCTG
 GGAATGTGTT AGCATCAGGA GAATTCCTCT AAGGTATGAA GAATGACAAC CTGGGACCTT TCTGTAGGT GGCTCTGAAC
 CTAATAATTC CCCAAGATT CCCAAGTGGT AGGAAGGAGG GGGTGCAGAG GGATATTAAT CATGGTCATT AAGTCTCAAA
 ACATTTCTAC TTCAAGTGAA TACATTAACC ATGCTGAGGC AGTTGAACAA CTGAATGCGT AGT

SEQ ID NO:1264: (Length of Sequence = 313 Nucleotides)

GGGACTACAT CAAGCACCTG CGCGACATCT GCGAGGGCTA CGTCCGGCAG TGCCGCAAGC GCGCAGACAT GTTCAGCGAG
 GAGCAGCTGC GTACCATCTT CGGGAACATC GAGGACATCT ACCGCTGCCA GAAGGCCTTC GTGAAGGCCC TGGAGCAGAG
 GTTCAACCGC GAGCGCCAC ACCTGAGCGA GCTGGGTGCC TGCTTNCCTG AGCATCAAGC CGACTTNCAG ATCTACTCGG
 AGTACTGCAA TAACCACCCC AACGCCTGCN TNGAGCTCTC CCGGCTTACC AAGCTCAGCA AGTACGTGTA CTT

SEQ ID NO:1265: (Length of Sequence = 290 Nucleotides)

TTTCTATGTG TAAGAGAAAA TAGAGATGGG TATACATACT GTTGTTTTTT TTGAGCCGAG AAACGTGTGT ACCGGGGCCT
 CAGGTGGTGG GCATTGGGGG CTCTCTTGC AGATGCCCAT TGGCATCACC GGTGCAGCCA TTGGTGGCAG CGGGTACCG
 TCCTTINTTG TTCAACATAG GGTAGTGGC AGCCACGGT CCAACTCGCT TGAGGCTGGG CCCTGGGCGC TCCATTTTNT
 NTTCCAGGAG CATNIGGTTT TTTGGCGGA CCCACGCAGC CTTGAGGATT

SEQ ID NO:1266: (Length of Sequence = 322 Nucleotides)

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CGGACAGATG TCACTCTCGC CCGAGAAGGG GGACACTGTG ATGGTGTCTT TAAGCTCATA GAGTGGCAGG TTGTCTGAAA
 TGCCACCATC CAGTAGCGC ACCCCCTGGA GGGAGGGAGG GATGAGCCCA CAGTACAAGG GGATGAAACC NCTGCAGACA
 TTGGCCCTGA TGAGCTCGTC CTGGGAGTTN AAGTGGGATA TAATGACATT NTCGCCGTCT GACACGCGGG TCAGGGAGAT
 GCCCAGGCGC CCACTGGCAT GCTCATGGCT ATCAGCAGGC AGGACCTTNA GCAGGAAACT CGGGATGATC TTTTACCAGG
 TT

SEQ ID NO:1267: (Length of Sequence = 310 Nucleotides)

GTAACCCATC CCATAGGGTT GTNCTATGTA TTCTTGCCAG GTGGGGTTGG AGCACCTTGT GAGCTCAGCA GCCCAACATC
 GATAGTAAGG GAGTCAGGGT TTCTTCATCT TCCCTAGAGT TAGAACTCAC TTCTACAGCC ACTGTGTGAG GGACCACITTT
 GAGCGCCCTT GGCACCTGCT GGCTGAAAT CAATTAGCT GTAATGGATC TGGCCAGCT TTTCTCTCT TGGGTATCT
 GCACTCATAG TGGTTGAAGC AAGATCTACC AGATGGGGAC ATTGAGATGG TCCCTTCTC CTCTCATTT

SEQ ID NO:1268: (Length of Sequence = 338 Nucleotides)

GGGCTGCTCG TGAGGATGGG ACAGCATTGA CTTACTGGGG AGACTCCCTT GATGACAGCC TTACACGGTT ATTCATAAGG
 AGGCAGGAAG AGGCGCTAAC AGTAAGCATG TTCTGGGGT TCTTCGGGGT GCACATGTGC AGCAGCTGTA CCTGCTTGCT
 TGTATGTTAC ATGTCTCATT AACATCTGAA ATCTCCACCC GGGAGTGTGT TTTTINACTAT TATAATGAGC AAAGGTTGAG
 TCTGAGGACA GGTAAATCA AAAATGTGCA CCTCTTACG GGGGAAATTC CTTACTGGAG CTAGTTTGGC TTGAAGNGAA
 CTGGACTACA GTGTGAAT

SEQ ID NO:1269: (Length of Sequence = 363 Nucleotides)

CTGCTAGAGA GTATTTTCAGG GTCTGCAGCA TGTGTGTAAG GCCATTAGC ATATGTTAAG GCCATTAAGA GCAGTAATTA
 TAAAGGGCC CTGCTAAAAT AAATATCAAG TTCCCTTAAG AAACCTCAAA ATTATGAAAG TTTGAGGTA TTATTTTGCT
 ACAAATGANC TTAGCAGCTA AGNAAAATGT CTGCCTGCTT ATAACTAAA TATGGTATAA TTATATATIN CTNTTATGTA
 TTTCTAAAGC TACATTTTCA CCTAATCTCT ACTACAAAGT AGTTTCGGGA AACAAAGTAA AAGCAGGGGN AATCCAACCT
 CAAATATAAT CAAATATAT

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GATAAGTGAG ACTAATGGAA TCGTTTCCCT CTAACITCAT AAAAATTTA AGGATTATCT TTCTTGAGTT CTCTGTATTT
 CTGTTTITAG AGAAAAGAAC AAAATTTAG AAACAAGATT ATAGTGCTTT TNCIAAAGTA TAAATACGTG GGCCCTATAC
 AAACCTGGCA ATTCATTAGT CTAAAGCAG ACATCCAAGC TATGTGGGT GTTTGGATGA CACCATTTTC ACAGTAGGAA
 ATCAITTCAT TCTGAGCGTG GGAATCGGCA TTGGTTAAG CATGAGGTTT TATGTGTAT AAACACCTGG GAAGTGAGAG
 AAAAGNCAGC ACAGAAGCTC TGTGGGAGCT CTTCTGAGCA TTG

SEQ ID NO:1271: (Length of Sequence = 335 Nucleotides)

ATGCCTCTGG CTGTTTTGAC TGCAAAAGG GATGTGCAGG GGTAGAGGTA GGGTACTAAT TTACAGTCAC CAAAATTAGT
 ACTGATATTA ATCAGTTTAG TTGGATTAAG ATGAACAATG TTTAATGCTT TAAGGNTCAT TTTTGGCCCC AACAGGACTG
 TGCTATATTA AATGACACCG TGCCCAAAG CTCAAAAATT ACATAGAAAG TAAAGTACTT CTTGAATACT AAAACAGTTA
 AGCATAAAAG GTTGTGAATT GGTCCCAAAG TGATATTAAC TTAAACATTT AATCCTACGN NCTATCTTAG CTGTACCTC
 TAAAAATGCT TAGGA

SEQ ID NO:1272: (Length of Sequence = 323 Nucleotides)

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GTTTTAGATA TTITAAGATA TTAACTGTC CCCTGGGCT TTTAAGGAAA AAATAAGTAT AAATNCTTGA ATATTAAGAN
 TTTTAAATCA GCTAAATTC GGGCCAAGAA CTATTTAAGA TGATTCANTG AGAAAGAAAA GGACCTAACC TGGAAAAAGA
 GTTTCAAATA TGCCAGTACG TAGGGTATTT NTGGAAATAC ACAGTCTAAA ATTAATAAATT NNAACTINATC AATGGAATTT
 AAATCTATAG CACTTTAAGG CTGTGGAGCC CAACANTAGG GENTACTTTG GGGGCACATG ATCTTTCAAA ACATAAATTA
 GGG

SEQ ID NO:1273: (Length of Sequence = 368 Nucleotides)

GCAGCCTGGG CAACAAAGCG AAACCCAGAC TCAAAAAAAA AAAAAAATAA AAAGTCTCTT AATCACAACA GCAAAGCTCC
 AAAAGTTCAA GCATCACAGG TAGCTAGTGG CTACTATATA GNCAGCACA GACACAGAAC GTTTCACAAC TCACACACAG
 TTCTANTGGG TAGCAATGAC CTATACTGCT GACCATGCTG NCCAACATGT NTGCAGCAGT CCTCATCCC TCTGNGTCC
 CCTGTTACAA GCTTAGANCC CCTCCNNAC GCTCCTCCCC CATAAACAGG GCAAGTNGG CAGAAGGTGG AATCCTTTTC
 AGGGGGCAAA T

331

GCAATGGGAT CTGGAGCCAA AGAAAAATAT ATCTGAGTTC TAGCTCCTCA CTAAGTAACT GTGIGATAAT GGGTATGTCA
 CTCACCCCTCT TTCAGCTTTG GTTCCTTTAT GTGTAAAAGG GAAAAACATA TGCCTACATC ATAAGGCAGA TGTGAACATC
 AAATGTTATC AGTAACTGTC AATCTGTTTT ATTAATTGTA GAATGTCCAA AATATTAGTT TGTATGGACT TCAATGAGTA
 TGTITGTGG AGTGGAGTGG GGGAAAGGGA TCATTGCTTA CCTCTGCAC ATATCATGTT TCAGCCTAGT ACAAGGCAGC
 CATGAGCACA AAGGGCTAAG CTACTTAAAT CAGNCCCCAA ACAACTTC

SEQ ID NO:1275: (Length of Sequence = 319 Nucleotides)

AGATTACTCT TTGAGAAATT TTGGTTAATT GTGAAGCTGA AATATCCTGA CTCTACCTCA AAGTTAATGT TTAGGTAAC
 TGAACAGGTA TTCINCCAT TACTAGTATT GAAGTCAGAA TACAGAAACA AATAGTTACT GCCAGAAGCA GAATGGAAGA
 GCCAAAAAGT ACACAAATG GACGCCATAA ATNCTGAAAT AAAAGTGTAT GATGTGTTCT GAGTCACGT AGAAGTCATG
 CATTATTAT CAAGATAGAA AAGAGCAGAG AATGACGTGG GACATTGGTC CTCGGAGGCG TTCGTANGTG GTTCGGTCC

SEQ ID NO:1276: (Length of Sequence = 324 Nucleotides)

CTGCATTGGG CAGGACAAAA CTGCCAGAT TCAGAAGGTC ACGANTCATC TGGCCTTTAA TGCTGATATC CAGTGGAGAG
 CTGGAGTGA GGCTTGGGA AATATTGACT TCCAGGACCC AGGGCTTGAG GTTTTCNTCT AGCATGATGT CAAAACCAAA
 GAGTTCATGG CAGCTATAGG GCGTGCAC ATACATCTTG AGCAGGCTGG TCACATAGGG CTCTGACGAG ATGATAGTTT
 TGACAACAAC ATCCTTTATC TTCTCCAGA TGGCGTCGCT ATTGATINCC CTTCTGGGCT CAGGTAGTTC CAAAAAGCC
 TTCA

SEQ ID NO:1277: (Length of Sequence = 388 Nucleotides)

AGCAAGGCGG TGGGGTAAGT NTGGACCTTT GTGTACCAGA GAGAACATCA TGGTGGCTTT CAAAGGGGTC TGGACTCAAG
 CTTTCTGGAA AGCAGTCACA GCGGAATTC TGGCCATGCT TATTTTININ CTCTCAGCC TGGGATCCAC CATCAACTGG
 GGTGGAACAG AAAAGCCTTT ACCGGTCGAC ATGGTTCINA TCTCCCTTTG CTTTGGACTC AGCATTGCAA CCATGGTGCA
 GTGCTTTGGC CATATCAGCG GTGGCCACAT CAACCTGCA GTGACTTTGG CCATGGTGTG CACCAGGAAG ATCAGCATCG
 CCAAGTCTGT CTTCTACATC GCAGCCAGT GCTGGGGG CATCATTTNG AGCAGGAATC CTCTATCT

SEQ ID NO:1278: (Length of Sequence = 354 Nucleotides)

315

GGACTTGTAC CCTGGGTGGT GAGAAGACCC TGATTGGTTT TATTAGTGCA TTTCTGTAAG TNACTGGGAT AATCAITGTC
AGTTGAGCAT TTTATGTGAG TTTCTGAAAG CNCTTTAATC AACTCCATAG ACAAGATTAT AGTGTGTCAC AGCAATAGGC
ATGGGCCATG TCTGCACTGG AGGTAAGTTG CAAGGTACAC CCACGGGTGA TTTATCACTC TTACAAAGAT GATAACTAAT
GAAGACCGCA TCTAGAATGC TCTTACTGGA GATGGTTTAC AGAGCATTIT TAATCATCAT ACTTAGATTT ATATTAATAT
TTCTTTTCAA ACTAAATTAT TCCAACTGT GCCC

SEQ ID NO:1279: (Length of Sequence = 347 Nucleotides)

CCACTTCAGT GCTTCTGTGT CCGAAAAGA TCTTTTGACG CATAGGGCCT AACTGTAATA CACTTAAAGG ATAAGTCTCC
ACCCCAAGGT GAACATGGGT CATGTGTAC ACGCACATTA GTTCATTATC CATGTGTGAG GACCTCCTTT GTGAACAGTC
ACAGCTCCTC CTATAACCTG TTAAATAIGT ATGTTTGATC AACCCATTCA ACTTAAATNC TTGTCTTACC TCTCCTTCCC
TCAAAGTGCC TGGCTATACT TCCCAGCTG CGGGATGGCC ACCTTGCAGG ATGGAACCTT TGTAAAGAA TAAAGTCTCC
TTTCCAAATG TACACATTGT ATGACTT

SEQ ID NO:1280: (Length of Sequence = 344 Nucleotides)

ATCCTTAGCA TGCTGINIT ACTGAGACCA TAAACTTTTT TTTTTCCTT CTGCCCTCAC CCAGTGTGTG TTAAGTCTTG
CTTGTTAAGC TCCACACTT AAATGGCTGC TTGCAGAATT GCAAAGGGAC TAGGGAGAGA ACAAACAG ATATGCAGGT
GGTGGTTGTT AACCAGACAG GATTTCTAAG GAGGGTTCAG GCAGTCAAGT GGTITINIGT ATGTINITTTA TGTTCATAGT
TTTGAGTTTT ACAATGTGTG AAGCTTACTT TTGCTAGCAT TAGGTATAGT TTATTTTGAA AGAATGAGGC TCCTGAAAT
AAACATGCCC AGTAACTAT ATCT

SEQ ID NO:1281: (Length of Sequence = 331 Nucleotides)

TGAGGAACAT AAAATGGCTT GGTAAAAGTA ATAAATCAG TACAATCACT AACTTTCCCT TGTACATATT ATTTTGCAGT
ATAGATGAAT ATTACTAATC AGTTTGATTA TNCTCAGAGG GTGCTGCTCT TTAATGAAAA TGAAAATTAT AGCTAATGTT
TTTCCCTCAA ACTCTGCTTT CTGTAACCAA TCAGTGTTTT AATGTTTGTG TGINCTTCAT AAAATTTAAA TACAATTCCN
TATTCTGTTT CCAATGTTAG TATGTATGTA AACATGNTAG TACAGCCATT TTTTTCATAT GTGGAGTAAA AATAAAATTA
GTATTTTAA A

SEQ ID NO:1282: (Length of Sequence = 310 Nucleotides)

CCATGTCAAA TGTAGTTTAC AAAGGGAAAG GACAAGTACC TTTNTATAGA ATATACAGAC ACAGCATCAC ACCACAGGGC
CCACGGGAGG GTCGGGGAGA CGACACTTTT TCCCTGGGAA AGGCAGCTCT AATCCCAGGA ATGGTTCTCN GCAGAGGCTG
GGTGGCCAGG AGCACTGTCC TCTAGCCCC TAACTCAGCC TCTGCTTCAN CTGGGTCCC ATTTCTTCCC TCTACCCCCC
AACTCCTTAT AAAGAGCCCC ATGAGCTAAG ACTAAGGAGA GGTTCATNTC CCTTGGGGCG TGTGCCCCAT

SEQ ID NO:1283: (Length of Sequence = 323 Nucleotides)

ATGAGGATTA ATTATATCTG TNCACCCAC ACAGCTCCCC CATACCCATA ATCTTTATTT ATTINCTTCG TTTCTCCCTT
ATACCTTGTT TCAGGCATTA AACATAACC TGTTATTTAT NCTATCCTTT TCAAAACAGG TGTGGACCAT GCACAGATGA
CCTATGAOGG GCAGCACTGG CACGCCACGG AAGCCTGCTT TNNITGTGCC CAGTGTAAAG CCTCTTTNTT GGGATGTCCC
TTCTTCCCA AACAGGGTCA GATTTACTGC TCAAAACGT GCAGTCTTTG GGTAAGACG TCCATGGCCT CTGAATTCCT
CCG

SEQ ID NO:1284: (Length of Sequence = 283 Nucleotides)

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TTTTTTCACA AGGTGAAAGA CCTTTATGGA CATGACAGAG AGGACCTGAG TTAAGAGGGA AAATACATCT NCATAGCTAG
 GTTCACATTC AGTTATGTTA GTCCCAAACC TACAAATTCA ACATGATCCC TATTAAAATC CTACCAATAT AGTTCAAAAG
 CTTGACAAGT TGATTGTINAC ATTTATATGA GAGANTAATT AAAAAAAAAA AAAATAGGGC CAGGTGCAGT GGCTCAGGCC
 TGTATCCCA GCACITTAGG AGGCCAAGGC GGACAGATCA CTT

SEQ ID NO:1285: (Length of Sequence = 341 Nucleotides)

CATTCTINATG ATGTAGAGGC CAAAATGGTA TTINATAAAG AGGAAATTAC TTCTGANCCA CCCCAGCTGG AAACACTGGT
 AGTATCGGCA GCAGATGTA TTACATCGT TTTGGTATTA CACATCGTAT TTACAGCAGA CATGACTGAN CTGGGAACAC
 TGCCCTGTA GACAGCCTGA AAGTTTTTIN CAGATTTTNT GTGAACACTG TCTGAATICA CATTTGGCAA AATGATTCTN
 CCAATTTCTC CGGCTTCTGC TAGTTTGAGG CAATCTGTTT TATGTGCCCC AGCTGAAGAT CTTTCACTAA CTCGATCTTT
 AGAAGCTAAC TGCATTGCTG G

SEQ ID NO:1286: (Length of Sequence = 354 Nucleotides)

GGCCTATTTG TACAAAGTGT GCATGTINAGC GTGCGTGTGT GINTTGCAIT TTTCCCCCTT TAGGTGGTTC AAATTTGGAA
 TTTGTGAAGG CAGAGCTGAT AATTAGAGAC AATAAAAATC TGCAGAGTAG ATGGTTCCAC AAACAAGACT ATGAAAGAGG
 GGATAAAGA AGAGGTCAAG AAAGACTCAA GAACAGTATA TAGAATAAT TCAATTACAT TATGTGTATT TTAAGAAAA
 CATGTTCAA CTGCATGAGA CAGAAAATAG CACTCNGTTA TCCTCTAGA CTTCTNAAAG TTTTGAGTTT GTCTGCAATC
 TTTTCCATT AATCGNCTTT TGCCATCTTC AGAA

SEQ ID NO:1287: (Length of Sequence = 354 Nucleotides)

CTCTCTACC CGGTGGCCTA TAGCCCCAA CGTGGTCAGC AGCTGCCTCA GCCATCCAG CAGCCTGGTT TACAGCCCAT
 GATGCTAAC CAGCAGCAGG CGGCTTACCA AGGCATGATT GGGGTCCAGC AGCCACAGAA CCAGGGCCTG CTCAGCAGCC
 AGAGGAGCAG CATGGGGGC CAGATGCAAG GGTGTGGT TCAGTACACT CCACTCCTT CITACCAAGT TCCAGTGGT
 AGTACTCGC AAAATGTGGT CCAGCCGCT TCCAGCAAC CCATCTGGT CCCTGTGAGC CAGTNTGTGC AAGGAGGCTT
 NCCAGCAGCG GGGGGTACCA GTGTACTATA GCAT

SEQ ID NO:1288: (Length of Sequence = 231 Nucleotides)

TTTACTTAAT TGGTATAGAT TGAGGNTCAT GCATCANCA GCAATTTTGA AATNTCCCC AAGTGATTCT NACCTGCAGC
 CTGGGTAAGA AGTCGCAGG CTCTGGATA GTCAATTAAGT GAACTGTGGT AAGCACTGAT GTAGCAGGAT TACCTGCCCT
 ACTAGGTGCC GGAATGCAT TINCTGTCT ACAAGTAATT TTTTAAATG TATGCTCGCA TCCTGCCCTT G

SEQ ID NO:1289: (Length of Sequence = 329 Nucleotides)

GGACACTGTG AGGGGAAAGG ACAATTTTAA AATTCCTTTT CAAGGAAAAA AAAGGTCTTT ATGCTTTGCC ATGAGGCCAC
 ATTCAGCTGC TATTTAANCT TAATATCTTG AACCTAAGA ATGCTGACTT TNCCTACATT TCCAGAGTTA GGCAGTATTC
 TACACTTAAA GACTACTACT ATTTINATAA AAGGTAATCT ATTCAAATTT CTTACAGAT TTCCCTTGCT GGGGATCAGT
 TAGTAAAGAA GGAGGAATTC CTCTTACCCA AGAGGAATTG CATTGCTTTA ATTTAGCAAT GTGAGGTAAG GCCTGCCNAG
 TGCCCAGGG

SEQ ID NO:1290: (Length of Sequence = 297 Nucleotides)

GGAGGCACAT GTGCAGCTTT GTTCATGGG TAAATGTCAT GTTCTGGGG CTAATGTGGT TTCTTTTACA GAAAAAGTA
 TCAGAAATAA TCGGTAACT TINCTACAT GGTCTTAACT CTCTTCAGG AAATATCTAA CTGTGAAGTG CAATCCTTCT

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TGTATAGCTG CCAGACCAGA CCCAGATAGA CCATAATAAA ATAAAATACA CAGTCAGTTT TTAATGCAAG CCAGAATGAC
TCTNCTGTAT CTTTAGCCTT TCCAGGGGGA TACAGTGAAC TCAGATATCC CTGCTTA

SEQ ID NO:1291: (Length of Sequence = 317 Nucleotides)

CTATAATCCC AGAAGTTTGG GAGGCCGAGG TGGGCGGTC ACCTGAGGTC AGGAGTTGAG ACCAGTCTGG CCAACATGAT
GGAACCCCAT CTNTACAAA ATAAAAGCA AGATATGCAA AATAATGTGC CAGTNTGGTG CCGTATACCT TTAGTCCCAG
TTACTAAGGA AGCAGGGTGT CTNAAACAGA AGAATCACCT GAGCCCAGGG AGGTCCGAGC TGGCTAAAA TAGATCTGGG
GGTAGTGGT AATNGGCCT TGTGAATNAT TCAGCATAAG GAAGTGTCCA ATATTTTTT AAGCTGTGAG AAAATCC

SEQ ID NO:1292: (Length of Sequence = 293 Nucleotides)

GAAGATGGAA ATAGACCACC ATACAAAACA AAAAGACAG AAGAGAATAT TAGCACTCTG TTGCAAAGGA GAATAGGTAT
GCTCAACTGG TAAGTAGAAT GCAATATTC CAATATCTGA AAAAAATCCC AAATCCAAAA TACTTCTGGT TCCATGCAIT
TTTNTAAGG GATACTCAAC AGGTATTTTA AAAGATCAAA ATACAGATCA GAGAATATGG ATACTTGAAG ATTATGAGCA
AACGAGGATT AAGGNAACA TGTGGAGGA CTTTTAAAA ATGTGTTAAA GGG

SEQ ID NO:1293: (Length of Sequence = 310 Nucleotides)

TCCCAGAAAC ATTACGGTIT GATATCAAGT TCCTATTTTA AGAGTCACCC ATTTGCCAC CATAAGTACC TGGAGAAGGT
AGGGTATTAC AGGACTAACC TTCCAGTGGC TGATTCTGGT GGTTTCCACA TTCAGGTTC TCTGATTTIN ACAAGCTTTT
TCCCATAAG ACTGCATTIN CTTTAAAGC TTCTCTGCA AAANAGCCAT AAATTGAAGC ACCAGTGAAG ACAATAAGT
AACATACAGA CCGTTTCATT GGGAGGGGGC CCNGAATENG AGACAAATAA GTCCTAGTA AATGGCATT

SEQ ID NO:1294: (Length of Sequence = 275 Nucleotides)

GAATGACGAT GTCAGGGGCA TCAGGAAAGG TAAGGGCCCG GAAACCGGC CCTTGGAGAA CCTGCCACG GGGAGGCCA
GCCTACTCAC AGGNTCCGAC ACTCCAGGCA GAGCAGAGG CAGGAGAGG CCAAGAGCT AGGTCAAGCA GCTGGCTCCC
CTGGGGTTAA ATACATGGGT TTTTGTTTAA CTGCTGTGCT TGATATACAT GAAGTAATGA ATACCAAGCA ATTCAITTTT
CCTGCATCTT TACTTTTACA TTGTNCTTA GGTTCCTTAA AACATTINAA ATACAATAAA ATGAGTGTAG CAAAAATTAT
TGAAGCT

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CAACCTCTGC CTCCCGAGTT CAAGCGATTC TCCTGCCTCC CGAGTAGGTG GGATTACAGG CATGATCCAT CAGCCCAAC
TAATTTTTTA TTTTGTAGTAG AGATGGGGTT TCTCCGTGTT GGTCCAGCTG GTCTCGAGCT CTGACCTCA GGTGATTCAC
CCACCTGGC CTCCCAAAGT NITGGGATTA CAGGTGTGAG CCACCGGCC AGGCTACTGG TCTCAATTCT TTTGGATACC
CAGAAGCAGA AATGCTGGGA TCACATGGTA GTCTC

SEQ ID NO:1296: (Length of Sequence = 247 Nucleotides)

GGAAGGAACA ATTGATAAGA ACCGGGGACA TCAGGGAGAG AGAGTATTTG AGCTGGGCTT GATTCCATCG GGTAGTATCT
GGAAAAAAA AAAAAATCC CAGATGAAAG AATGTACAAA GACATGAGCA TGCAGGGCAC ACTTTGGAAA ATGGGNGAAG
TCTGACAGGC CTGGGAGAAT GAAGACAAGT TAGCACCAGN TTNAGAAGGC CTTGATTACA NGGCCAAAC TTTTGGATTT
TACACTA

SEQ ID NO:1297: (Length of Sequence = 246 Nucleotides)

GACTTCTTAC AATGCAGCAG CAAGAGAAAA TNAGGAAGAA GCAAAAGCAG AAACCCCCAG TAAACCCATC AGACTTCGTG
AGACTTATTC ACTATCACTA GAATAGCATG GGAAAGACCA GCCCCCATAG GTCCACTACC TCTCCCTGGG TCCTCCCAA
AACATGTGGG AATTATGGGA GATACAATTC AAGTTAAGAT TTGAATGGG ACACAGTCAA ACCATATCAT TCTGCCCTTG
GCCCCCT

SEQ ID NO:1298: (Length of Sequence = 263 Nucleotides)

CATTGCACTC CAGCCTGGGC AACAGAGCA AAACCTCCATA TCAAAAAA AAAAAA GAATTGCTGA CCTTTATGTG
TTTCTGTTTA AGTTCACAAC AGTCATAATT CTGTAAAATA CAAGGCAAAA CTGTAGTTTC TGATACTAGT AATATATCTA
ANTCAGTAAG TAAAAAGGAT GTGTAAAATC TTAATAGGGG AAATAATTAT TGTATGANCA AGCAATTTCA AAATCAAAAG
NCACGTTTCA GTATATATTA TAG

SEQ ID NO:1299: (Length of Sequence = 272 Nucleotides)

ATCINATTGT TGTGTAGTTT ATGGCAGTGG TCTCCAGACT TTTTGGCACT AGGGACCAGT TTAATGGGAG ATAATTTTCC
CATGGACGAG GGGATGGGGA GGAGGCAGGG GTGGTTTCTG GATGAAACIN TTCCACCTCA GAAGATCATC AGGCATTAGT
TTCTCATAAG GAGGCAAAAC CTAGATCCCT TGCATGCACA GTTCACAATG GCACCTCGTCG CATATNCCGT CGACAACCCCT
TTTTTGAGGT TCCATGCTTC CCATTGGCT TT

SEQ ID NO:1300: (Length of Sequence = 277 Nucleotides)

ACCACTGCAC TCCAGCCTGG GTGACAAGAG TGAACCTCCA TCTTAAAAA AATGTGTAAA ATGAAGATTA TCATACTACC
TACATCATAG AATTGTTTTT AGTGTAAAT GTGTGTGTGT ACATTTATGT AATAGTTAAC ATTTAAAGAG CACCTACTTT
GTGTAAACAT ACTTTGTATG AGATACTGTT CAAATATATA TNCTAATATA TGCAACATAT TATATATGTN AGAATAGGTT
CTTATATATC TTAGGAAGTT AGATCTTATA TGTTTGA

SEQ ID NO:1301: (Length of Sequence = 304 Nucleotides)

GGTTGCGGGT TATGTAAATC CCAACTTAT GAACAGGAAA TGTGTACAGT GCATGATAGG TTAAATTTTN CTTTATTGTT
GTCCAACGCA GGTCTTTTGG AGAGAAAAA AGATCACAGT GCTGACCAGG TAACTCAATA GGTTAAGTCA AGGTAACCAT
TGAAAGATAA TAGGATTAGG GAGGTGTTTA TTTTATGGCA TCTTCTCTCA TGGAGTCTTT AGCACTTCGG ACAATTTGTC
TNTCCCCAC TTTGTACAGC TGTATGTGT CATTCACCAG CCGGCTGTAT TTAACITGCC TACT

SEQ ID NO:1302: (Length of Sequence = 335 Nucleotides)

AGTTTATTCG CATAAGAAA ACATTTTATA AAATAATATG GTAGACTTCT ACTTCAACAT ATTCACGTAA AAACATCACA
GTGCAAGAAA GTGATCACA TTAAGCATGA AGACATCAA AGCCAGCCAG TATTTTAACT ACAGAGCAGA ATATTCTTGC
TGTCCCTTCC TAGAAAATGT TGGCACATTC ATTAACGTCT CAGGTTACAA AAATCACTTC GTGTCCACTT CCTGTCTTC
AATATATTIN CATAACTACA CTGTGTTACA TTAATGCTGG TGGACAAATT AGCTCCTATA AAATCTAAAA ACCTTTTCAG
GTGGGCACAA TGGTT

SEQ ID NO:1303: (Length of Sequence = 316 Nucleotides)

TGGAGCTGTA TATGGTCGG AGTTATATGC AGCATCCAGC TTTCAAGCAG ATGINTCCCT AGGCAATGAT GCAGCAGTGC
CCCTATCAGG AAGAGGGGGT ATCAACACTT ACATTCCCTT AATCATTCCT GGCTTCCCTT ACCCTACTGC AGCCACCAG
GCAGCGCTT TCAGAGGAGC CCATTNAGG GGCAGAGGGC GGACAGTATA TGGTGAGTC CGAGCGGTAC CTCCAACAGC
CATCCCCGCC TATCCAGGTG TGGTTTACCA GGGACGGATT TTACGGTTGN TGACCTCTAT ATAGATTCTG CAAACT

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SEQ ID NO:1304: (Length of Sequence = 211 Nucleotides)

TATTTTINC TTCCTCTCCT CCTACATATA TTCTAAACCT TCTAAAGTTT TTNNATTTT TTAAGGATCA CTTTATCATA
 AAATAAAATA TCCTTTTCAT ATAATAAATT ACCTAATAAA AAGTCITTTT TTTCATATT AGCCCAGGIN CTTTGCTACA
 TTTATATGGT AATAAACGCC TTTATTAATA TAGANTATTA AATTATAAAG A

SEQ ID NO:1305: (Length of Sequence = 316 Nucleotides)

GAAATGATTC AGGGAAAAA ATTTATAGTA CGTTTTCAAC TTTTTTTTTT TTCTTTTGAA ATGGAGTATG GTCATAAAAA
 GGACACTAAA TAACCTGATT AAGCTAGAGT ATAGACCAA TTGCCACTTA CTTTGAATTG TTTTACCAA AGGTATCACT
 TTGAATAAAG ATAACTTTCA TTAGACATCT ATCTTTATGT GTTCCTGCCA TCATTTTCAGT GAGATCAGAG GAAAGTTAAA
 TTAGGAACAA TGAAAAGCT TAAGAAATGA ACAATCATCA TGCTTTTG TG TATGCTTAAA GTGAGTACAT GTAAAA

SEQ ID NO:1306: (Length of Sequence = 310 Nucleotides)

GGGGATTTTT GAAGGCTTCG CTGTGGATGG CCGAGAACCT GCTCGGGTG TAGGTCTGTG TGTCTGGGG ACAGTTTCCA
 CATCTGAGCA CACGGACTGG ATTTCTGAAA TGTCAAAGTC TGATGCATCA CTGCCTCGGC GGCTGCTGGC CCTNCTGCCA
 GCCTTGCTTC CAGCTCGACT TCCTGGTCCG CTGGGAGTCT TCTTGAATC AGCAAACGT GTTCGGACTC TGGCAGNTGC
 AGTTGTTATC AAGCCACTGT CCTCCCCANA GTGGAAGCCT TTCCCTGATA AAAATCCTGG AAGTCGAAGC

SEQ ID NO:1307: (Length of Sequence = 302 Nucleotides)

TAATAAATAG TATATGTAGT GAAGAAAAAG TTATAACAAG TATACATTAC ATTAAACACA CCTAGCACAT AGGACACCCT
 CAACAACAG CTACAGCTGC TGTAATCAT GTGTATATAA TATAACATGC AAGCATATCT TCATGTATTG ATTAATTACT
 ACTTCTTGA AAAGGATCTG AGGAACATAT TTAATATATT TNATATGCCT GCTCATATGT NCATTTAGTG CTTATCAATT
 ATATTTAGTG CTTTTCTATT AGCTTCATCC ATTGATTAA GATAGCAACT TGTATTATTT AA

SEQ ID NO:1308: (Length of Sequence = 285 Nucleotides)

CGCCGGCCAA CGTGGTCTTC CTCTACATGC TCTGCAGGA TGTTATCTCC TCCGAGGTGG GCTCGGNICA CGAGCTCCAG
 GCCGCTCTGC TGACATGCCT GTACCTNTCC TACTCCTACA TGGGCAACGA GATCTCCTAC CCGCTCAAGC CCTTCCTGGT
 GGAGAGCTGC AAGGAGGCCT TTINGGACCN TTGCCTCTCT GTCATCAACC TCATGAGCTC AAAGATGCTG CAGATAAATG
 CCGACCCACA CTACTTCACA CAGGTCTTCT CCGACCTGAA GAACG

SEQ ID NO:1309: (Length of Sequence = 319 Nucleotides)

TTTCCAATTA TTATTTTGCC AATATCCTCA ACTCTTTTGC CCACCTTINAT CTTCCATTCA ACCCTCCCTG CAAAATCCTG
 ATCTAAAAGC AACCCAAGTA TTGCTCTCT CAACCTCCCA GCTGCTGAGT GGTTTTGGGA ATTACACAAC CACTAAGCTT
 GGTGCAGATG CACTATGGCC TCAATAGAGT CCCCCAGTGC TGCCCACTTT CTCCTTCCAT ATTTCTCCAC AGCAGCTGGT
 CAAAATACAT TTNCCCCAA ATGTCTTACA CAACCCCTT CTCTCTTATC ATCCTTANCT CACCCCAACC CCAGTTCTT

SEQ ID NO:1310: (Length of Sequence = 356 Nucleotides)

TGAAGTTTTC CTCTTGTCG CAGTCTGGA GGGCAATGTG CGATTTCAGC TCACTGCAAC CTCTGCCTCC CGGGTTCCAG
 CGATTCTCCT GCCTCAGTAT CCCAAGTAGC TGGGATAATA GGCCTTGCA ACCATGCCCA GCTAATTTTT GTAGTTTTAG
 CAGAGACGGG GTTTCACCGT GTTGGTCAGG CTGGTCTTGA ATTCTTGACC TCGTATCTG CCGCCTCGG CCTCCCAAAA
 TGCTGGGATC ACAGGCATGA GCCACGCAC CTGCCCTAT ATCTGCTTC CTATCTCGTG GGTATGGTG TATGGCTTTT
 ATTTATTTCA ACCTGCAGTT GTTTCAGAA CATCTG

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SEQ ID NO:1311: (Length of Sequence = 331 Nucleotides)

AGCTCAGATT CATGCTTGA GCCAAACAAG TGAATGTATC TNAGAAGACT CAGTACCACA TGGTACTGGG AGATCTTACT
 CACTTCAGCT GCGGTGCTC ATTAGTGAAT GTATGACAGC AGGATGTGAG GGGATGCCCA GGAGTCAGTG TTAGCATTGT
 CATCTGAGAT CACTGCTATT AATATCATCC ATTAATTTAT TAGTGAGCTT CACTATATGC AGACTGGGAG ATAAGGAGAA
 AATCTGTAC ATTCTCTTA GCTAATCAGA TCAGCTACCA ATTAATGAGA TTCTGAATGA AATATCAATA TGTGTTTTTC
 TAATTTGGAC C

SEQ ID NO:1312: (Length of Sequence = 347 Nucleotides)

TTTTTTCCTT TATAAATTAC CCAGCTTCAG ATTTTITINAT AGCAATGCAA AAATGGCCTA ATACACTTCA GAACCTGGAA
 GATTAGCAGT GAGAAATAAA ATCAGTTAAG TTGATGACTT CTAGTATTTT ACTACATGGT TGTTTTGCCA AAATGAAGGC
 AATATCAGTG TCTTCACACT TAAAAAGTAG TATATTGANC TTTGAGGTGA AAGAGCTGGG GTTTAAATTT GTNCTTTACC
 AATTATTGAG ATAAGTGTC TTGAGCAAGT TACTTGCTTT CNCTGATCTT TAGTTTTCTT ATTTGTGAAA TTGGAAATGG
 TGGTGTITCA GAGGGGGTT GTATATA

SEQ ID NO:1313: (Length of Sequence = 336 Nucleotides)

GAATTCCTCT ATCAAAGTGT TCATAAAACC TGGAGCTGCA GCTGCCCCC ATTAGGTAGT TTCTTGGTGA ACGTTTTCOA
 AGGAAAACCT TTTTTTAACA ACTTCATAAA GCCAAGCACA AAAGGACATT GCAATGACTG GCTGAAAGAC ATGGGACTTT
 TTGTCTTGA CGACTAAAAC GTTAAATGGG GGCTTACTTT GTGCATTTAT GGAAGAAAAC TTGGAAGGCA TTAAAGGCTA
 CATTTTGAGC CTTGCATGAT TTCATTCAIT TATGCATGAA TTCATTTGTT CAACATTTAT TTAGTACCCA CTATATGCCA
 GGCATGTGC CAAATG

SEQ ID NO:1314: (Length of Sequence = 391 Nucleotides)

CCGTTTAGA CTCAGTGG CGCTGTGAGG GCACTGTCCG CCCACCTGCT CGGCTGGCTG AGCTAGGTCA GTGGAGAGAA
 GCTGGGGCCA CTCACACAGC ACAGCAGGCC ACAGTCTACA GAGTACGCCA GGTAGAGCGG TTAGAGTGGC AGCCGCTGGA
 GAAAGGGTIA TAGAAACACA TCCCTGACTC TTTGGTATG TCCCACGTCC TCTGTGCTC CTCCCTTC CTTACTCTCC
 TTCCTTCTG CTTCTGTG TCCCTGGAA GTCCCTGTTG TCAGTGCATT TNAGTGCATT GACGTGTCTT AACACTGAT
 CTNCACACAC CTTCTTAT CTTCCACCTG ATAGGCAGGC CCCAGANCC CTTTTTCTT AGCTTTGTTC T

SEQ ID NO:1315: (Length of Sequence = 374 Nucleotides)

GAATTCCTG GAACACTGGT GTTACAGAG AGAGATACTT TGTGGAATGG AGCTTACATG ATGAATGAAA AAGAGACCGT
 TAAAAAGTAC TAGCCGTGT TTACAAATAA CTACCAGGTA AACAAAGAAA TCACTTTCTT TCCCTTTCT AAGGATAAGG
 GAGAATAAAA TAATCACCAG GAGGCATGGA GTTTGAAAAG TATATAACAG ATTCTTTTAT TATTATTAC AATCAAGTTC
 TGTGTGNCAG CATAATGAAA TAAATAAAG ATGTGCCCTG GCCTGTGAAT TTCAACTCTC CTGACTTAA GTTCTCTGAA
 GGGCAAATG GAAAGCGTG ATCAGGCAGG GAAGAGAGGG CAGGTGGAGG CCAG

SEQ ID NO:1316: (Length of Sequence = 353 Nucleotides)

CTGTGTTACA GGTITGAAA GGTITGTAAG ATTAGTATTT ACTTTTAATT TTTTGAGTAA TAGAATGCGT TTAGGTTCTA
 AATTACTATG GAAATGGCAT AGTGAGGATT CTNCACAGAT ATTAGAGACC TTCAACAACA TAGTGAAAAT AGATTGTGCC
 TTTCTGTAA ATAGCTGAAC TATGAAAATT TGANCTGTCA CTGGAGGGG CATTTGCNCT GAAGTTTGCC AAGTAAAAA
 TAACTTTNC CTTTAGTAAG AAAAAGCTAT ATTTTINCAAT ACTGCTGCC ACAGCAAACA AACAAAGTCT TGTGTGTGTT
 TTAATATTGG CAAAGGAAAA ATTCTCTATA TAA

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SEQ ID NO:1317: (Length of Sequence = 316 Nucleotides)

GAATTCGGAT TATAAGCATC AATATGCATA AAATGCTTAG AGATGGACCT GATATATAGC AAACACTCAG TAAATGTTAA
 CTATTATTAT NACAGCACAG CAATTTATTT AAGATTACTG AGTGTTCAAA TGAAAAAAAA GACATATTAA CTTATATAGT
 GCCATTTCTG ACATAAGAAA TACACAAATA GAGGTAGTTT CTGAAACAAA GATCAAAAAA ATCTATTGTA TGGTGTCTTG
 TATCAATGTG GCTAAAAATT TCGAGCTAAG TTTTATNAAA GACAGATCAT ATTCANGTA GGTGATTTT GTATTG

SEQ ID NO:1318: (Length of Sequence = 300 Nucleotides)

GTGGGACTAC AGGTGCACGC TATCATACCC AACTAATTTT GTATTMTTA GTAGACATGT GTTCCCAT CTGGCAGGG
 CTGGTCTGAA ACTCCTGACC TGAGGTGATC CACCTGCCTT GGCCTGCAA AGTGTCTGGA TTACAGGTGT GAGCCAACAA
 GCCTGGCCCA TTATTACT TTTAATTTT CATTTTCTT CATCATGTAG AATGGACAAT TTCAGGAAAC TGATAGAAAA
 TACTGTCTAA CATCAAAATT TCAAAAAGT TTCTCTGTAA CAGATAAGGC AGTCAATTTT

SEQ ID NO:1319: (Length of Sequence = 306 Nucleotides)

CAATAAGCTT TAAAAAGTTA GTGCCACATG ACCAGCATCG ACTGGCCTCA GACATCTGCA AGCACTCACC CAGGCCACAG
 GGTGAGGTAG AGGGCTCCTG GGCCCACTGT AGCCCTGCTT GGGTCAGTGT AGCTGGAAGG CTACGGGNC TTAGTGGGA
 GCCACAGCCT TTCCCACTAG GGGGCTCTC ACTCTGACAT CTCCCTGTGG GTTTCGGACC AAGGGTGGG AGGGAGACAC
 GCTGGCCCTA AAGGGAGGTG GTAATNAGTG AAGATCTCCA GGCCAGNC ACAGGGCTCC GTCCAT

SEQ ID NO:1320: (Length of Sequence = 373 Nucleotides)

GGTCTGATC TCCTGACCTC GTGATCCACC CGCTGGGCC TCCCAAAGTG CTGGGATTAC AGGCGTGAGC ACCGTGCCTG
 GCCGAGATAA TTATTTTNA GTGACGATTT AGCAACCTGA AAACCTTGGG TCTTTGGGAT ATGACCTCAG TATCAACACA
 GAATATTGA ATGCTGGTTA ATATATTINT TTAAACTGT GATAGAATTG AAATCTTGT GCCACATTT GAAAGTTTAT
 TCTTCATTAA CTAGTCTTTT CTCACCTGAT TTTCTACAAG AGAGAATTTT CCAAAGGTT AGTTGTCTT ACATTAAAGAA
 CTTGGGGTTT GNTTGACATG AAATGTTTCT ACACCAGCAG GTCTCAGATG AAT

SEQ ID NO:1321: (Length of Sequence = 366 Nucleotides)

GTTTGGCTAA TCATCCTATG ATTTTCCTAT AGCTTGAAAA CTTTTTATAT CTTAAATTTT TTNATAATTT TGAAGTATTA
 TTGTTTGGGC TTGTATATC CAGTGTATTT TCAATTAAAT TCCCTAACT AAAGTAATTC AAAAGGAATA AAAGTGTAA
 GTGGGCTGGG CGTGGCGGCT CATGCCGTGA ATCCAGCAC TTTGGGAGGC CCAGGCGGGC AGATCACCTG AGGGCAGGAG
 TTGGAGACCA GCCTGGCCAA CATGGTGAAA CCCGTCTCT ACTAAAANTA CAAAATTAGC CGGGTGTGGT GGCACATGCC
 TATAATCCCA GCTATTGTTGG AGGCTGAGTC AGGGAGAATC TCTTGA

SEQ ID NO:1322: (Length of Sequence = 362 Nucleotides)

AGGGAGGGTA AAACAAATCC CCTTCAATG CTTTGTAGAA GGGGATTAGA ATCACTGTGG AATTGGGTAT TGGCTAATAA
 AGTATAAAG CTAAAGATCA ATGCTGAGT GCACAGTTGT CTTCAAGCC ATTGTACTTC TGCTTTCCAA GANTAGANGA
 CTACTTTTAA ACCAAGANT AAAAATAANC TCATAATTTA AACACCTCTT TCATGCCAAA TGGAAATCTT AGTGTGTAAT
 AATCAGGCTC ACCTGAATAC AAAGTTGTCC TGAAATGCT GACAATCACA AAAAAGGTT TAGAAGCTTT TTCAAAAAAC
 AAGTTCAGAT GGTCCCACT GAGTTACTAT TTGAGTTAA AG

SEQ ID NO:1323: (Length of Sequence = 244 Nucleotides)

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CGACCTCAGT GTAAATCACA AAACGGGAAG AGCTGATATT GGCAAAATAA TTACATGGCT CATTTCCCTG CATGTCAAAA
TAGGAATTGA TTGGTTGTAA AAGATGACAA ATACCTTTNC GGTTTCAATG TTCTTAAGTG GGAAGTCACT TATTACAGAC
CTNATTGGGA GTAAACAAAG CTGTTAGACC TTTCATTATC AGTCCNNTTA ATCCCTTCAA TAATCCCCCT AAATCAGTGA
GGCG

SEQ ID NO:1324: (Length of Sequence = 279 Nucleotides)

GATCCATGCC ACAGTGACCT CTGTNACCTT GCACAGCACA GAGGGGAAAG CCCTGTACCA GGTGGCGTAT GAGAATGAGG
TAGGCAACAG CTCGTACTTC TATGACATCG TGGTCATCGC CACCCCTCTG CACCTGGACA ACAGCAGCAG CAACTTAACC
TTTGAGGCT TCCACCGGCC CATTGATGAC GTGCAGGGCT CTTTCCAGCC CACCGTCGTC TCCTTGGTCC ACGGNTACCT
CAANTCGTCC TAATTCGGTT TCCCAGACCC TAAGCTTTT

SEQ ID NO:1325: (Length of Sequence = 338 Nucleotides)

TCAGTTATTT GTGTGTGTGT GTGTGTGTGT GTGTGTCAT CTGCAAAACC TGCACTTCAT TATCCAAAAA TTATTTGATA
TTTTATAATC AGAGAAAATG CTATTTTAA ACCTTACCAC TGCTGACCAA ACAACAATCA CAACAGCATA AACTTAAATA
CTGTCAACA AATCTATTTT AGTGTAGTAA TTAAATAATT CCTAAAATTA TAGACATCCC TAATATTCCT TCCNITAGTG
GTTCTCAGA GTGCAATCTG TGGAGCAACT ACCITGAAGA AATTTGGGGG AATGAGACCN TGGGAACCCCT AAATGTTTGA
NATGGTGCTC TNGGGGAC

SEQ ID NO:1326: (Length of Sequence = 393 Nucleotides)

AACITTTGGAG GGGACACCAT CACTCAAACC ATAGCTGTAA ATCTATTCCT TGAGTCCAGA TCACAAATTA CCAAATGAAC
ACGTTCTCCA TTTTGTAGTAC TTTTGTACCT GTAACCTCT GTCTACCTAA GATGAATATT TATTCATTGA ATGAATCAIT
TAATTTTGGT GCCCAAAAT TCTCAGTGAA ACAATTTCTG GATACCTCTC CATCACTAAG ATAATCACTA TAGCAGTGTG
ATATCTTCA ACTTAGNACA AATCTAAAGG CTCCATTAT CCCTACTAGA AGTGTCTGTG TGCTTTTTTC ACTCTCAAAA
TATCTCCAT GGCNAAACA AACACTAANG GGNACCACA TATCTTGCTC AATGGAGGCN AAATCACTTT TTA

SEQ ID NO:1327: (Length of Sequence = 381 Nucleotides)

CTTTGGAGAA TTAATTCAGC AGTTGGTAA ATCATTCTAT AATAATGGT ACCATTCTGC TCTGTCCAC ATTTTATGA
AGTCTCTTA AATTTAAAAA GGCAATGTGC TTTGTGGTTC TTGAGCAACT TAAATACGT GCTCTGAATA GTTATGTGA
TGAGGTAATT TGTAACAACT TTTAGGATCA ATGCTAATTT NCTTAAATGT TTCTGTAGTT TCCCTTTAT TATAAAGTAT
ATTAGGCTGG ACTCTGGCT GTAAGTGGCA GAAACTCAA CTCAGATTAG TTAAGAAACA AAAGGTGTG GGTGACAGTG
GTGGCTTCA GACTATTGCT GCAGGCCAC CTGCCATCCT CTACACCT CAACATACCC T

SEQ ID NO:1328: (Length of Sequence = 289 Nucleotides)

AGAAGAAAAT TCCTAAGCAG AGTACTTAAG TACAAAATG AGTGACTGAA AGATGCTTAA TCTAGGGAAA TTAATGAGA
AAAATACATG GTGTGTGINT TGGAGGGGA GCTGGAATG GAATGGGCTG GAGTGATGAA AAAAGCCAA CAGATATAGT
CTTCTGTTT GTAATATAGG CTCAATACTA AATTATGTAG GACTAGATAA TCTAGGTCCT AATGTCTCCT TTTTGCTGGC
AACCTGGGG CCAATTACAC TAGAGGGTGT GTAGAAAAA GAGGAATAT

SEQ ID NO:1329: (Length of Sequence = 364 Nucleotides)

TTGTATATTT GGGATTGTCA ATAATCTAGG CCACGTGGAA GATAACAGGC TATTTTGGAT ATTTNCTAAT TGCAATGGTT
ATATTTCTGT GTAAATGCT ATACAAATGT TTGCTTGGT ACATATGGAA AACTTAAGN CTTTATGAA AAGGCGACAA
TGGGGACCTC CAAAGCGCCA AAGTTTCTGC TAGGCATAGT GTTATTTTGA GATTACATTA AAATGGCTAT TTAGACCCAT

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CTAGCTGAGA CTATTCCAAA ACAAACTTTT TATCANATTG TNATCATAAT CAACTTTCTA CAGGCTAATG ACTTTATAGN
TTTACTNCTA GGTATATCT ACTAGCACAA TTGGACCCAG TTCC

SEQ ID NO:1330: (Length of Sequence = 221 Nucleotides)

CAATATTTAA ACAAAATGCA AACTGAACG TTACCTCAAA ATGAAACAGT GTGTGTACTG GCTGTTAGAA GTTGATGGCG
GTCTACTGTT TGATATTCAC TGCCATCTTC CTCTGCCCCA CTCTACCTCA ACTCGGGACC GCTCACCTA ATGGTGGGCT
TTGCCGCTTT ATGCCNTGTA GAGNAGACAC TGGGTAACCA CAGCAAATCA ACACGGGNTC C

SEQ ID NO:1331: (Length of Sequence = 279 Nucleotides)

AATAGAGATA ATGGTCAACT CTTGAGAAGA ACCAAATGCT GGTGCCATCT TGAAGTGTCT ACATCACCTC CTCCTCTTAC
TTCTTGAAC AGCAATATTT CTGGATTCTT TCTGCAAGCC CCAGGCAGTG CAGGATGCGT TTTTTCAG CAGCCAGTTC
CTTCTCAGAG AACTGGCCCC AGAGTTTCTG GACAAATATA TTTTGATCTT TCAGAAATAT GTTCINATTC ACTCCTACAT
TTGGCACATT NTCCAAGGGC CCAGACTGA AATTGGAGG

SEQ ID NO:1332: (Length of Sequence = 290 Nucleotides)

GGACGAGGAG ATGCTTTTGG TGGACTTGGG AAAGAGGTG CTAGAAGCAG CAAGAAAAGG CCAAGATGAT GAAGTGAGAA
OGTTGATGGC AAATGGCGCC CCATTACCA CAGACTGGCT TGAACATCA CCCTCCACC TTGCAGCTCA ATATGGTCAT
TATTCCACAG CAGAAGTACT CCTTCAGCA GGTGTTAGCA GGGATGCCCG GACTAAAGTA GACAGGACCC CCTTGCACAT
GGCTGCAGCC GATGGACATG CGCACATCGT GGGAACTGCT TTTTCGGAAT

SEQ ID NO:1333: (Length of Sequence = 201 Nucleotides)

CGCCCAGCTA ATTTTGTAT TTTNAGTAGA GACGGGTTT CATCATTINA GTCAGGCTGG TCTCAGACTG CTGACCTCAT
GATCCACAG CCTTGGCCTC CCAAAGTACT GGGATTACAG GCATGAACCA CCAGGCCAT CTGATTTCCC GTTTTCTGCA
GGGTAAAGNC TCAGGGCCCG CCCATTGNTT TCAGGANITT T

SEQ ID NO:1334: (Length of Sequence = 267 Nucleotides)

NNATACTTT TTGTGAAAT TTAGAAATG TGGATCTTTT ATACTTGCTT TCCCTTTTCT TCTGCCATCT TTATCTTCTG
CTGAAGGAGA CAAACAATAT TTTAGGTGAC ATCTATCACT TTATGTAGGA CCTGCAAACA CTCATGTGT CTTCGGACAG
ACAAATGGAG AATGTAAATC TGTTACACTG TGACAGGATA TAATTNTGGA TTGCATAGN TTNCAACAAA GTGTCTGTGT
GATGANTAAA TGGTAAAATA TATTTAT

SEQ ID NO:1335: (Length of Sequence = 279 Nucleotides)

GGNTCTGTGTT AGAATGCAGA TTCTAATTAA AAATGTGTAG GACAGGGCCT GAGACTCGGT ATTTCTAACA AGTTCCCAAG
TGATACTAAT GCTACTGCTT CACAGATCAC ACTTTAAATA GTAAGTTCTT TGAGAGAGAT TAGTCTCAAG AGAAAAGAGA
CAAAATCTC CAGAGCAGGA AGACCAAGAA AAAAAATGG AAAGTAGCCA GTCGATTATC AACTAGATGG CCTTAGTGAG
ATTCTGCACA ATATTTCATC ATACAAACT GNTTCCCA

SEQ ID NO:1336: (Length of Sequence = 398 Nucleotides)

TTTTTTAAGC ACTCTGTGT GGA CTGGTCA AAGATGTTCC TAAAACAACA TTGCTGTAC CAAGCCTCCC ATGANTTAGG
CTGGCTCTC CCATGTGGAT ATCTGCTTCT GCATAGTTGG TGAAGAGGAA GCATCCTCAG TCAAAGCTAC CAGCTGAGGA
ACCTTAGGA AACCCGCTG GTACCTGGCC TGINTTTTGT AAGTATACAT CAGGCCAGGG GGCTGCTTGC CAAGCAACAT
CATTGACTGC ATACTGTTTA GTGCATGCAT TACCAGGGCT CAAACATCCA AGTGATGCTA CCTGAATAAG TCGAGGAATT

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TTTGATAATA AACATAAGCC AAATCCAAAA AAATGTTCTG GGTTTTCCCA TCATTTCAC TCATTAGTNC CAGGAAAA

SEQ ID NO:1337: (Length of Sequence = 272 Nucleotides)

CTTTCCTCAG TATCACAGGT ACCGTGTTTN CTGGAATTTA TTTAAAATGT CACCTGTAG TGTTCCCTCT CTAGGGCTGT
TTGTTTCATT TCCCTCTGAA TGAATGCTGC CACACGGTCA TATGTGAGCC AAGTTTACAA GAATGGAGTT GCTGCTGAAG
AGATCTCTCA TTCATCTCCC CCAGTGCTG TCTTCACAA TCATAACGTT ACCCTTGCTT GACAAATATA CTGTATGGCA
AGTCATAAAG GTCTINGAAC AGGACTTGAC CC

SEQ ID NO:1338: (Length of Sequence = 212 Nucleotides)

TAGTCCCTT TATATAATAT AATCAAGTTC CTCCATCTGG GCATTGAGTT AAATCTACA ACATTGCCAA AATCTGATTT
GACTCTACAG AATATGTATA GTTTATTTAA CCAGATAGTA ATTTAAATTT TTACAACATG CGTATTTTCAT GTAATATTAA
TAACAGTAAT TTAATAATAT ATTCAATACA TACCGTTTGA ATTTTATATA GG

SEQ ID NO:1339: (Length of Sequence = 280 Nucleotides)

TTTTTAGGAA TAACAAATGT TTATTCAGAA ATGGATAAGT AATACATAAT CACTCTTCAT CTCTTAATGC CCGTTCCTCT
CCTTCTGCAC AGGAGACACA GATGGGTAAC ATAGAGGCAT GGAAGTGA GGAGGACACA GGACTAGCCC ACCACCTTCT
CCTCCCGGTC TCCCAAGATG ACTGCTTATA GAGTGGNGGA GGCAACAGG TCCCCTCAAT GTACCAGNTG GTCACCTATA
GCACCAGCTC CAGATGGCCA CGTGGCTGCA GCTGTACTCA

SEQ ID NO:1340: (Length of Sequence = 324 Nucleotides)

CTGTTCCACC TCAGATCATC AGGCATTAGA TTCTCATAAG GAGTGTGCAA CCTAGATCCC TCCCATGTGC TGTTTCATAGC
AGGATTTGCA CTCTATAAG AATCTAATGC CACTGCAGAT CTGGCAGGAG GCGGAGCTGA TGGTGGGAAG GTGGTATTGC
TCGC CCTC GCCTACTGCT CACCTCCTGC TGTGGGGTCC AGTTCACC ACAGACCACT GGTCTNIGAC TCAGGGACCA
CTAC CCT AACANGNTG AGGAAAACAA CTGGGTTCAT CACACAATTA TTTTAAAGTT CAGGTTTNC AAATAACTTA
TCCF

SEQ ID NO:1341: (Length of Sequence = 376 Nucleotides)

CTAATCAAGG GTACAAGATG TCTAANTCAA AGGCCAGCT CTGCCTACAA GTCAAATATC TAGGCCTAAT CTGGCCAGA
GGAACCAGGG CCCTCAGCAA GGAATGANTA CAGCCTATAC TGGCTTATCC TCGCCCTAAG ACATTAAAAC AGTTGTGGGG
GTTCTTGGGA ATCACTGGCT TTTGCCGACT ATGNTCCCC AGATACAGCG AGATACACTC TAAGGAGACC CAGAGGGCAA
ATATCATCT AGTAGAATGG AGACCCAGAG GGCAAATCT CATCTAGTAG AATGGGGACC AGAGGCAGAA ACAGCCTTTC
AAAACCTTTA AAGCAGGCCC TTCTTNCAG CTCCAGCCTT TAAGCCTTNC CACAGG

SEQ ID NO:1342: (Length of Sequence = 335 Nucleotides)

ACCCCTCCCC ACTCCTGGT CCCCAGGAGC AGCTCCTTCT GCCCGANTNA CTCACAGTGC AGGGAAAGGA GGCAGGAAA
AGACCAGGAT TCTGTGAGTT CTGAGGTGTC CACACACAAA GAAGCTGTGG TTTCTCTGCC TGGCCACTG ATGAGACTAA
AACTGGCTTC CCCTTGAGA CGGCAGATTT CAGGCTGATC CTTGCTTAAG CCCTCTCATC CCCACGCTGG TCTGGTATT
GATACAAGAC CCAGCTGGT ACAAGCCTC CAATCCTGGG GGTCCACGGA GCCTGGGGCT GANATTCCA GGAATATCC
GCCAGTGGC GCCCA

SEQ ID NO:1343: (Length of Sequence = 379 Nucleotides)

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GAACCCAGGA GGCGGAGGIT GTAGTGAGCC AAGATCGTGC CATTGCACTC CAGCCTCGGC AACAGAGCG AACTCCATC
TTAAGAAAAA AAGAAGGGTG TGATAGTTAA ATTTATGCAT CAACTTGGCT AGGCAATGGT GTCCAGATAG TTGGTCAAAC
ATTATCTAG ATGTTTCTGT GGAGGTTATT TTTTAGATGA GATTAGCCTT GTAAACTGGT GAAAATGGG TGAAGGAGAT
TACCTGCGAT AGTGTGGTGG GTCTCATTTA ATCAGCTGGA GGCTCAATA GGGAAAAAGA CTCACCTCNC CCTGGAGCAA
GAAGGAAATT CTGCCCAGC AGAACTTCTT NGGGCAGCAG AATGCAACCA TAAACTCTT

SEQ ID NO:1344: (Length of Sequence = 400 Nucleotides)

GACGGATGGG ATCGGGGCTG TGCTCTGCAG GTCTCCCCA GAGATGTTGT CATACTGCGA GGGATGCCG TCGTAGGACA
CCCTGCAGCC AGAGCCGTCC GCCGTCTGGN AGGCTGCGCT CCTGCGCTTC TTCTCGGGGA GAGCAGGTGG CGTATCTNTN
TGCTGCCCTG GGGCCAGAGG TCCGINTGGC TGGGGATGGC CGCCAAGAGG CAGCTGGAAA GGAGGGCCAA GAAATGGAGA
CCCAGACTCC CCCAAAGACT CTGGCAACGG GCTAAGGTT CAGGGCCGTC TGCTGAGGTA TCTGGTCTGC GTTAGAGAGG
TCTTINCTGA GGAATTCATA GTCGGGATCA TAGCAGATCT TGTCCTTTT CTATACCATC TGTCCTATTT GGAGATNGCT

SEQ ID NO:1345: (Length of Sequence = 347 Nucleotides)

CCTCTTCCC CAAGGAGCIT GCAATTTTAG GAACTAATCC AGTTTGAGGG CTGAATTTAA GTTAAATCA ATTACTGCC
TATGTACTCC TTTTAAACA ACATTAGGTC AAGACCTTT CAGTGTAAA TAACTGATT TGTCAATTAT ATACATTCAA
GTTTTATAAA TGTGTTTTTC CTCACCTCAC TGAAATATCA GAATCCAGCT CAAAACAGA ATCAAAGAGG AGACTTTTAA
GCTTATTCAA TAAAACTAT GGTACGGTAA TATTCAAAT AGTGAAATC ATTATATTAT CTAAATTTCT CAGGAAACTG
CTTTAACCAT GGATTAAATA ATTACC

SEQ ID NO:1346: (Length of Sequence = 287 Nucleotides)

CAAGTCAATA CCCATAATT AGTCAAGTTC CCAGCCTTAA TTATATTTNT NTCTCGCTCG TTCACCTCT CTCTCCTTCC
CTCCTTCCC CTCTGCCCCA CCCCCGTTA CATTATATAC CAATTCATG GAGATATATA TATGINTG TNNGINTG
TGTTGINTC TGTGTGTGT TGTGTGTTAA AGAAGCAGGA TGCTTACAC AGATGTTTCA TATATTGAGG NATTACAGAG
TAATTACAGG GAAAGGTATT ACATGTTCT TCAACACCT AGGCAGT

SEQ ID NO:1347: (Length of Sequence = 295 Nucleotides)

ATTAAACAAC TTTTAAAC TTTTGTGCA CAGGACAGAA AACTGCCTGT ACATGCTATG TCCACTTTTG GAACACAGAT
TTTTAACAAT TATGAATGCA CAAATCTTA CATATCATGC AACTCTATG CAAGAACCCA ACTTCTTCC ATGCAACAGA
TATGAAGATC TAAATGGAAA CTTAGCTAAG TCTTAAACAC TTTCCAGTA GCAAGTATA TATATGTTGT TGAGGGAAAA
CCAGCTTAA CAATNCTTG TACACAATAT TCATGTGCCA AATACAATGN CAGGN

SEQ ID NO:1348: (Length of Sequence = 332 Nucleotides)

AGTCCCTGCT ATGTGGATAT TTGGTAGCAA TGACTGATGT GGAACTACA TATGCAGATT TTATTGCTTC AGGAAGAACA
GGTAGAAGAA ATGCAATACA TGATATCTG GTTCTCTG CAAGTGGCAA CAGCAATGAA TTAGCCTTGA AATTAGCAGG
TCTTGATATC AACAGACAG AAGGTGAAGA AGATGCACAA CGAANTTCTA CAGAACAAG TGGNGGAAGC CCAGGGAGAA
GCAGCAAAAT CTGAAAGCTT AACACCCAC TTTGACCTC GGCCACACCT GAAATGTCT CAAATCTCCA GGGNGTATCT
GGGAATGCAT TT

SEQ ID NO:1349: (Length of Sequence = 296 Nucleotides)

GCCCCAAAA CAATGACACA AAATTCATTT GGTAAATCA TGTAAGGAA AAAACAGCAA CACCACCACA CAAACAGGAA
AGTGGGAGTA TGATTAGGAG GGGTGAGATG AAAACTATTT TACAGTACA TTCCACCAA AAGACTGTCC TAAGAACACG

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CTGTCAATAC AGTTCACAGG GAAAAAGCAA ATGTGGTATT TTTTGTATT TTTTAAAAGC TCCCTGGGTC CCAGGTGTTT
TGCAGTTTTTC AAGGNCCTAT CTGCTAAAGG AATGCCCTTT TAGGGTCACA GCAGGT

SEQ ID NO:1350: (Length of Sequence = 317 Nucleotides)

CTGTGCCCCA GGCTAGAATG CAATGNCGTG ATCTTGGCTC TCACTGCAAC CTCCACCTCC CAGGTTCAGG TGATTCTCCT
GCCTCANTCT CCCTAGTAGC TGGGATTACA GGIGTTCACC ACCACGCCAG GCTAATTTTT GTATTTTTAG TAGAGAAGGG
GTTTCACCAT GTTGCCCAAC CTCGAACCTC CAACCTCAGG TGATCCACCT GCCTCAGCCT CCCAAAGTGC TGGGATTACA
GGCATGAGCC ACTGTGCCTG GGCCAATAAA CTATATTTIN TCAAGCCAAA GTAGGACAAG CACAGTTTTT AAAAGGG

SEQ ID NO:1351: (Length of Sequence = 349 Nucleotides)

CGGATGGGTG GGATGAGACT TCAGCTTTAT TGGAAATGTT TTATTTCCIT ATCTAAAAAA ATACTAGAAA GAAATACAAC
AAAAATGTAA CAGTTGTAA TGTCGGCTC TGTAAATATA GATATTGTGT TACTTTAGTC TTTTTTTTAA TCTCAACTAA
ATTAAAAAAG GAATTTTAGT CTTTTTTTAT CTCAACTAAA TTAAAAAAGG AATTTTAAAA CCCTAGTGTT ACATGCAAGT
GAGTCCAATA ATGGCAAAAT AATAATGAGG NTACATAGGA AGGGTGACCT AAATTTTAAT GGGTGAATAC TGGGTCCCCG
GTACAAGTTT GANAATTTT GAATTTCCG

SEQ ID NO:1352: (Length of Sequence = 304 Nucleotides)

TTTTTATACT ATTTAAAAGA ATCCTTAAAT GATGGGTATT CTCTAAAGCA TGCGGGGCTT AAAACCTAGA TGATGGATTG
ATAGGTGCAG CAAACCACCG TGGCACAATAT ATACCTATGT AACAAACCTG CACATTCAGC ACATGTATCC CAAGACTTAA
AGTAAAAGTA AAAATTAAAA AAGATGGGTA TTCTATAITT ATCTTTCATG TTACATTTTT CTTGTGGGG TTTCTAAATA
AAACTGTGTA CATGAATGTT TTATTCAT TCTGTATTTT AAAAGAAGC TGAGTAACAA AAGG

SEQ ID NO:1353: (Length of Sequence = 307 Nucleotides)

CTTAGTCTGA CATTAGGTAA TGAGAAGTAC AAAAGATCCA CAAGTACAAA AAAATCTGTA TAGCTTTGCG GTAGTTGAAA
AAAATGCAAG AGAACAAAAA AATTTTTTGA GTAATATTCA TCTCTGCAGA TCTGAGTGAC AGTCCGCTTG AAACACCGCT
GTAAAAGTGG TAAAAAATGA TTTCATTGTG ATTATGTTAA AATTTTTGAT GTCTCTNITA CTGTGTTTAG GGAATCTGG
TCTTCTGNC ATTTATACCT GGATANGINC CTTTCCCTGT AATTTTINCT GAAAGGCTCC AATTTCC

SEQ ID NO:1354: (Length of Sequence = 407 Nucleotides)

GTGAAGTTAA GCAGCAAGGG CTGAGAACCG CTGCTCCAGA GAGGCCAGGA GGTCTGGTCA GAGGCTGGGG CCCAGCCCC
CAGGCACCTC TCTGTGTCAG TTTCCCTGGA GAAGTCATGA GTTTGAAGAG TAGGCAGAGG CCAGGTGTCA TCACTGAGTC
ACTCATCAAT GGCCAATGAG AGTNCAAAGG GTAGCTCTGA GCACAGGATG TTAGCAAGA CTCTGGGTT CAGCTCCCAG
TCCACCANT GCCAAGTGGG GGATCCTTAG CAAGGTACTT ACCTTTTTNN TGCTCTGTT TCTACGGCTG CAAAATGGGC
ACAATAATGT CAGATTCATG AGGGATAATG AGGACTAAAA TTAGGNTAAT TNOCTATAAG CTGCTCTTAA ACGTATTTAC
TTATAAA

SEQ ID NO:1355: (Length of Sequence = 355 Nucleotides)

ATTACTATTT GCCTCTATAG GAGGTTTCAT TAGGCATCTN CTTCATTATG AGTGCAATAT AATCAAACAC TTATCAGTAC
AAGGCAGAGA GACCGGGACT AGCTGCCTAC ACATCCTCAA TGAGCTTTAG GAAATGTGAA GGAAACATGG ACTGAAAATC
TTCTGGTGGC AGGTACTCTC ATGTGTGTG CTATCTGATG CTCTCAACAA CCTCTAGGGG TAGATATTGT GACCTCATC

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TTGCAGAAGC CTGGCTCAA GTATATGCTC AGAATCAGAG AGCTGGAAGA TAACTTGGG TCTCTCTAGT GCCAGAGNCC
ATGNCCTCTG ATCTCTCAAG GGCAGAGGTA TTACC

SEQ ID NO:1356: (Length of Sequence = 406 Nucleotides)

TTTTTTTTAG TTATTTCACT CTCTCTGTTA AATTTATCTG ATAGGATTCT GCAGAGAACA AAATTCAACA GGGCCCTGTG
GAGCAAGGAG CCCCCTTTTC CTATCTCCIT CCTCTAAGAG CTACACCCAG ACCAGCTGGT TATCAGCGGA GGGCCCGCTG
CTCCTCATGA GAACGCTGGT GGAAGACGAA GGTGATGGCA GTGGAGGCAG CATCCAGGC AGCCTGGAGT ACCTCATCCC
GGAGCCCCCA CTTATCAGTG CAGTGGTTCC ACCCTGCCAG GGTCTNAAGT GCAGTCAGAA CCATCAGGGG GTNGCCGGAT
CTGACGGCTG TTNACACAAC GTGGCAGTG CAAACCTAGG GACAGAAGGC ACANCTNAAG TCACTNCAGA TCCCATCTTC
CTACTG

SEQ ID NO:1357: (Length of Sequence = 231 Nucleotides)

TTTCACAAAG AATTTATGAT TGCTTCACCA GGTCACTAGT GAGCTAAAGT CAAGGAATGA CTACAATCTT GTAGCATTTT
AAAGTGATTA GAATTTGAGA AACTTTTACT ACATTATGTG TTACTATCAT AAGAACACTC CTTGGGGGC ATTTGAATAA
TAAAAAGNC TACATTCTTT GCACCANGTG NTCATTTTCA CCCACATTCC AGTATTTTNC TCTAACTTGG G

SEQ ID NO:1358: (Length of Sequence = 302 Nucleotides)

CACAACATAT TTGTAAGCCC CTTGAGCGCA GGAAGTGGT TTTTAAAGAA TGATGTATTC TTCACAGTGC TTTCCCTTTC
TGTTACCCAG GGAGCACATG GCAATATAAG GGCTCCTGGG ATTGANTCTT AAGTACAGAG AAAACCTAAG AATNCTTTTA
GATAGACAGA TAAGAGACCA CNAGAGAAGA GCAGATTCTA AGGTATNTGT GAGAAACGTT ATGTAATGAA AAGATAATTG
ATGACACACA CTTCCAGAGN GTGCTGGCGA GATTGTATTC AAAAGCACAC GGCTAGGGCA CT

SEQ ID NO:1359: (Length of Sequence = 356 Nucleotides)

TAATGATGAG CCTCTGGGTG CAGGGAGAGG ATAGGACTTG ATGCTTTCCA GGGGAAATAT TTAAAATTTT AGTACTAAGT
TAAGTCTGTA TCATTTTACT TTTTATATAG TTTCTTATTT TATGTTGTAT GAGATGAAAA GCTTGCACAT AAAAGATGAT
AAGAAATTAG AATTCATCGT TTCTGTGTGA CCAAGAAGAA CCTTAGTGAT CTCTAAAAGA ATTGTTGTGA AAATATGGAT
TCINCTTTCC TTCTAGTACT CCCCTAGCAT GACANTGAGC GTGTGATCCA TTACCAAGTC TCCTCATGAA AACCACAGTG
AGTCAGCCCT TCACAGAACT ACTACGGGAG GAAATT

SEQ ID NO:1360: (Length of Sequence = 366 Nucleotides)

AAAATTTAAT TCAACTGACC CATCCACCG GGAATGCCA CTAGGAAGGT GTAGCCTGCA GTTTTACCTA ATAAGCACAA
CTGGAGGGGA ATAGAAACAC AGAATGTGA GGAATCGCA AGGCATGCTG CTCAGAGCAT GCCTAGCCCT GCACTGAAAG
CTATGAGATA CTGGTTCTGA GGCATGGCTG TGCTTGCTGG TGGGAGCGG CATCCTCCCT TGGCCTCCCT GGGACACCTC
CTGTGCTCCC TGCACTGCAC TCCACGTGCC TGGGGTGTCT ACACAACCTG CTGCAGCTTC ACTAAAGAAC AGGTGGCACT
NCAGCTTCTC CGGTCTCTG TGAGCACAGG GNCCGCCAN CCTTGA

SEQ ID NO:1361: (Length of Sequence = 347 Nucleotides)

CCTCTACTG TCTGTCTGT GGGACAGTGG CCTCCCCCTC ATCTCCAGTG ACTCAGCCTA CACAAGGGAG GACCAACAGG
NCTAGTTTT TCACGTGAT GGAGTTCAA GCTTTTTTTT TTGTTTGTG TTGTTTCGCA AAATAAAAC AATACACATT
CCAAGAGAAA TGAATGCATC TMTGACAGG TCTCTATTTC TCATTTACAT ATGTACACAC GNCCCTTGAG TCGCTGCTGT
TGACACGGCC CNGTGTGGAC GGGTCAGGCC CGAGGCCCT CGGAGCAGA CCTGTAGCTC TCTGGGGGAT CAGGGCTTCC
ATTAGGGAGA AAGTATTAGC AGTTTCT

SEQ ID NO:1362: (Length of Sequence = 358 Nucleotides)

CCATTCATTC ATTTCATTC AAATATTCAT TCAACAAATG AAGCAAAGGA GCACACAGCC AAGTGATGGA GCAAAATCAC
AAATTAAAAG GTAATTCAGG CCAGGTGAGG TGGCTCATGC CTGTAATCCC AGCACTTTGG GAGGCCGAGG CAGGTGGACC
AGCTGAGGCC AGGAGTTTNA GACCAGCCTG GCCAACATGA TGCAACCCCG TNINTACTGA AAATACAAAA ACAACAAC
AACATAAAAA AATTAGCCAG GTATNGTTG CAGGCGNCTG TAATTNCAGC TTAGTCAGGA GGCTTTGGCA NGGGCTTCAG
TTAGCCAAGA TCGGACCCCT NCACTTTCAG CCTGGGTA

SEQ ID NO:1363: (Length of Sequence = 312 Nucleotides)

TATTTAAATA ACGTCAAIT TCATAAATCA GCACATTTAC TAGATAGGTA GGATACTTTT NATCCATTG TGTTTAAAA
AATTAGCGCA TGTTTCTCTT TATGCCCACT TGTATTAGCA GAATAGTGT TCCGGATTCC CTGAATGGNT CTGTATTGAG
TCTGTATAGA CCCCGAAGGA AAAGGAGGAA TTCGCCGTGC CCGAGAATAG CTCCGTCCAG CAGTTTANGG NAGAAATCTC
TAAACGTTTT AAATCACATA CTGACCAACT TGTGTTGATA TTTGCTGGAA AAATTTTGAA AGNTCAAGAT AC

SEQ ID NO:1364: (Length of Sequence = 345 Nucleotides)

CTGACAGATT TACAGATGCT GACCTATTGA AAAATACCAC AGCCAGAATG GGCTAAACAG GTATATAGTT AATACAACCA
CCACCATCCT TTACTTTTAA CATAGCTCTT AGTAGGAATT TCATAAAANT GGACATCACA GCTAAAATGC ATTATTAATT
CTCCTATCTG CTGACAATAA AAAAGCAGCA AACTCAATGA TTTCTATTTA AATGCACTAG ATGGGAATAT CATGTTCTAG
GGGTGTTTGC CTTCAAACCA AACCCACAGC AACACACACA AGCAATTTG GTATCCACCA TTTTAAATTC ACAATCTGAG
NCTAAATGAA TGGCTATTTA TATTT

SEQ ID NO:1365: (Length of Sequence = 255 Nucleotides)

CTCCAGAAAG CCATGATCT GGTGACGAAA GCCACAGAGG AGGACAAAGC CAAGANCTAC GAGGAGGCGC TCGGCTGTA
CCAGCATCGG GTGGAGTACT TCCTCCACGC TATCAAGTAT GAGGCCACACA GCGACAAGGC CAAGGAGAGC ATTGAGCCA
AGTGGGTGCA GTACCTAGAC CGGGCCGAGA AGCTGAAGGA TTATTTACGA AGCAAAGAGA AACACGGCAA GAAGCCAGTC
AAAGAGAACC AGAGT

SEQ ID NO:1366: (Length of Sequence = 322 Nucleotides)

AAAAAAAAA TTCAAAGAA ACAGAGTAAT TTTCTCCTT GCCTCAGCCC TAAGTCATCT CCCAGACAAA AAAGCAATCA
TCATTGTCAA ATTTAAAAGG GAAAAGGAAA GACTTTTATT TGANTGAAAA GATTTTTTTC AGTGTGATAG AGAGGGAAGA
CTGAAATAAA CAGAATTTAC AACCTTCGCA CCTTTGCACC TTCTCTCT AGCAGTATGG CAACTAAAT AACTTGCAT
GAAAACGGGT TAAAAAGCTG TATACTTTTT TAAAAAATAT AATTNGNTTA TGTCAATGAT CTGCACAGTT TTGAATACAA
AA

SEQ ID NO:1367: (Length of Sequence = 349 Nucleotides)

GAAAACAAGG TCAACATCAC TCATCATTAG AGAAATGCAA ATCAAAACCA TAGTGAAATA CCATCTCACA CCAGTCAGAA
TGGCTGCTAC TAGAAATAAC ATGCTGGTGA GGCTGCAGAG AGAAAGGAAT GTTTATACAC TGTTAATGGG AGTNTAATTA
GTTCAACCAT TGTGGTAGAC AGTGTGAAAA TTCTCAAG ACCTAGAGAC AGAAATACCA TTTGACTGAG CAATCTCATT
ACTGGGTATA TAGCCAAAGG AATATAAATT GTTCTACTGT AGAGAAAACA TGCATGCATG TTTGTTTGA GCACTATTTT
ACAAGAGCAA ACACATGGGA TCAACTTAA

SEQ ID NO:1368: (Length of Sequence = 379 Nucleotides)

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CTGGGACAGA GACCTTTGCA TTGCTCCATG TGTGGCTTC AGCTGGGACA GAGACCTTTG CATTCCTCCA TGTGTTGGGG
 CAGGTCTTCC ATTTCAATCT CCTCTGCCCT AATTATTTAG CCATACTTGT GCTATTTATT ACTTTTAAAC CCTAATCCTT
 TTTCCGTAAT TTGTTTACAT TTTCAGAGT GCCAGCATT TACAATGTGT CTTTTATGTC TCACAGAGGT CATCATTAG
 TTAGACCTTT GGCTTCATGT GTCTCCGAG AGATGGTTTA TAAAATTTC ATNCTTCTGG CACAGGTGGT GTGGCTTAGG
 GATTAGGACA CAGCTGCCT GAGTTCACAC CTCATCTCTC CCACTTAACA CTGATAATT

SEQ ID NO:1369: (Length of Sequence = 319 Nucleotides)

ATTTCTGGTC TAAGTTTAT TATTCCTTT CTCTGCTTG TTTAGGCIG ATATTGCACT TCTTACTCCA GTTTTCTAAG
 GTGGAAGCTT CGACTATTGA TTTCAAATCT TTTTNCITIN CTAATCTATG CATTCAATGT TATAAGTTTC TGTGAAGCAG
 TGATTTCAAT GCATCCACA TTTTGATAGG TTATATTTCC ATTTAGTTAC AAATAATTTA AATTTCCTT GAGATTTCTG
 CTTTGACTTA TGTGTTATTT GGAAGTGTAT TTTTATTCTC CAAATATTTA GAGATTGCA GCTGTCTTTA TGTATTAA

SEQ ID NO:1370: (Length of Sequence = 343 Nucleotides)

GGAAACATA AATNTGACA AGTAGTTCAA GACTGTTGGG ATAACTTAG CTAGAGTGCA GGTACATACT ACCCATCTTT
 ATAAGGAAGC TGAAAAGGGA AGTATGAGGA CAGGGAGAAC AATGACTTIN TCTCTCAAGC TTGACTTAAA CCACCAGGAA
 AGTTCTTAAA GCCAAGCCT TTCTCAGACT CTCACCAAC CATAAGAGTC AGAAAAATGG TCGTTTTCAA AGGAGTAGAA
 AATTCTGTAC AAAGTAAACA ACAGCTGAAG CAGGAAAGN ACATACATTT NNTCATTAG TGGCAGCAG GCAAAACAGA
 ACATAGGGCC AGCTTGTTA TTT

SEQ ID NO:1371: (Length of Sequence = 295 Nucleotides)

ATTTCTNCCT GGGCGGCGAT GATCTGAGCA ATGCCCCCA CAACTTGGT TTTCACTACA ACATGCTCGT CATCAGCTTT
 GCCAAAAGCT GCCTTCTGGG CTGCAOGGAC AAGATTGINT GAGGCTCTTT TCACAGCATT TCCTGCGGCC TGTAGCGGCC
 TCATGGCCTC TNAATCCTGG TGGCCTTCA CCTTGAGGC CACCAGCAGC TGAGCCGTGG AAGCGCGAC CTGCTTGGCA
 GATGAGATGA GCTTCTCTC GCTGGCGTGT CCTGAACGG AGGCATTGGC CGCCT

SEQ ID NO:1372: (Length of Sequence = 340 Nucleotides)

TTTGCTTTCA GATAATGTTT CTGTATACTT TATAAATGCT ATCTGTGGTA TCTCCTGTAT AATTNACAAT GTTTGCATGT
 AAAAAACAAA ACCCATAGAC CTTAAAAAAA AGAAAAAAG AATATACAC TATACATAGG CACAGCTTAT GCCCAGAGCA
 TAGCAGGTGC ATAAAACACT GTTGCTATAA ATGCAAGAAA AAGGTCATT AACCACAATC ACATTTTTT NCATAAGNEN
 GTCTGAAATC TATACAATAT ATACATCTAT GTTTCAATGT GGAAATAATA TTCTTTTAAA TTCAAGGCG TGTATACCC
 CTGCAGGCCT GCATAAATGG

SEQ ID NO:1373: (Length of Sequence = 315 Nucleotides)

AATCCTGGGG GTGATTTAGA ACTTAGAGGC ATTCTCAAAA TGGACCAAGC TAAATGGTAG CCTTTATTIN CTGTAATGAT
 TCACCATGGG AAAATTAGTA ATTCCTTAAA CTCTTACTT AATCTTATAT GTATTCCAAA TTINCTAAAA AGAAATTAAC
 CTAGAGGTTT TACAGAATC CATTTTTTTT TTATTNCCA GAAAGGAAAA ATTTATCTGT NCTGINATTT TGTAAAAAT
 CCTATTCCAG CTAATACTAT GGAAAAAGGA AAAGAAGAAA GGAGGAAAGG AAGGGAGAGA GGAAAGGAAG GGACG

SEQ ID NO:1374: (Length of Sequence = 327 Nucleotides)

GAGCCAGTGG TGGCCCCAA CAGCCCAATC TGGTACTCAG TCCAGCCTAT CAGCAGAGAG CAGATGGGAC AAATGCTGAC
 GCGGATCTG GTGATAAGAG AAATTCAGGA GGCCATCGCA GTGGCCAATG CAAGCACTAT GCACTGAGAT GCCTTGGCCA

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AAAGGAAAAT ATAAAAGAAA ATAAAATCTC ACATTGGTGC TTAGCAGGAG AATTTTAAAA GACTTACAAA TCAACAAGCT
GTTCAAATAA ATAATGAATG CTGCAGCTGG CTCCTACATG GGGCTTTNAG TGTCCCAANTA GTAGCAGATG TCCAGTTCT
ATAAAAT

SEQ ID NO:1375: (Length of Sequence = 338 Nucleotides)

TGCATGGAAA CTTAATCTAT TCAGGTCCCA ACTTTCAGGC TTCTCTGCTC TGACAAGTAC TAGAGGCCAA TATGATAGAC
TAGTCTGAGT TGGATGCAAG TTAGCCATTT CCAGGAATGA TACCAGGATA AGTATAATGG TCGTGAATAT AACCGGATTT
TAAGGGAGAA TGATTACACC TGGAAACAAA CTGTCAATAC ACAAGTAACT AGTTGTAAAA GATTTCCTAAT TTTGACCAAA
GATTTTFACT TTCCTGGTAT AGAAATGGAA ATAAACATTN AACTTTTAGG TTTTGAAAGC AACCACCTCC TAACACGGTT
CTGAGTTGGG GGCCAACA

SEQ ID NO:1376: (Length of Sequence = 307 Nucleotides)

CAAGCCTCCC TCAAAAAAAT CCCCAGAGTA ATGAAAATAC AAAGTCTGCT TGTTCAAAAT TATGGTGGCA ATAAAAAAGG
AAAGGGAGGA AGTGATGGAG TAAAGTTCAG ATTAAAAATA AACGGAAAGT CACAACAGTC GAAAGGTGGA AAAAAACCGC
AAATGCCCAT GANCTGATGA ATGGATAAAC AAAATTTGGT GTGTGTGTAT ATATGTGTAC AAACCTCCTT TTTATGATGA
AATAGTATTT CATTGTGTGT GCACATGTIN CACACACANT TTAAATAGTA TTTCGTGATA AAAAAAG

SEQ ID NO:1377: (Length of Sequence = 353 Nucleotides)

TGGAATACAC TTGTGAATAC AGTGTGTAGG ATACATTAACT AGTTTCTGA GTGGGCTGCT CTTTTTCCT CAATACTGTA
TATATTTTNN TTAAGCTCTT CTTTAAAAGA TAAATATTTT TCATACTTCT CTAAATCCT CAAGGATTAA CTCTGAGTCA
CCATTGTGG TATTTTAAAT CCTTTTAAAT AAATCTCTGT ATTGCAACT GCATCAAAAC AGTAAACAT TTCACAGGGT
AGGATCTGAT GACCATTTTA TAATCAACAT TTTTAGGTAC CACAAGAG ACTTTATGAG CATCCACTGA AATTATGGGC
ATTATGTCAT ATAAATATCC AAAAATCCAT TTT

SEQ ID NO:1378: (Length of Sequence = 315 Nucleotides)

GATTTGGCAA ATATTTGGGT GAGATTGAA AATAAATTAC ACCACTGCTG CACAAGTTAA TGTGAATCAA GCATCTGTTT
ATTTCATCA GTTATGCCT TTTTCTTT TTTTGTGAG TGCAGTTGG GTACAGACT CTCAATTGA CAAGACACTT
TAAAGCAGG AGTAGAAAT AGGCTGGGT TTTACAATA TTACAGGAAC TGTATAACA AACTTCAAGT GGATCAGTTT
ATTTCTGATT TAACTTGGGG ATAAACAGTG TTCAATATTT TCCAAAAGAT TCTCCCATTA TAGAAGTCCC AAAAG

SEQ ID NO:1379: (Length of Sequence = 352 Nucleotides)

ACCGCAAAAT TTAGCTGTTT ATTAGGTGC AAGTCTCTCC TTCTCTCCCT GCTTCTCTT TCTNCTTTT CTCCCCACAA
ATCTCTCAA AACACATACA AAAAGAGAAA ACTAGAAGCA AGATTGGGTC AACATGAAG AACACAGAAA GCNTATTAAA
TAGCTAGCTT TAAAGGGCTC TTTTTCAGTT TGAACAAAAG TAAACGTTT TCAAAAGCAA AAACAGAAAA CAGAGCTTCC
ACCCAGATTG TGCAACTTAA TGAGAGGAGG TTAGTCTGA TAAACCCATT GTGAAATCTA TTATAAAGTG ACAGGTTTTT
CAAGCAAGGA AATCCAATCC AGTTGGGGT TG

SEQ ID NO:1380: (Length of Sequence = 261 Nucleotides)

AAAAATTTAG TGAAGACGTG AATAGATATT NCTGCAAGA AAACATACAA GTGGTCAATA GGTATATAAA AGGTATTCAA
TATCACTAAT CATCAGGGAA ATGCAATCA AAACCACAAT GAGTTATCTN CTCATACCTT TNATGATGGC TAATATTAA
CGAGAGATAA CAAGTGTTTA TGGGGTGTG GNGAAAAGAG AATGTTGAA CACTCTTGGT TGAAATATAA GTTGGTAGAA
CCATTATGCA AAACAGTATG A

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SEQ ID NO:1381: (Length of Sequence = 273 Nucleotides)

GCCACTACAC TCCAGCCTGG GACACAGAGC AAGACTCCCT CCCAAAAAAA AAAAAAAAAA TTATTAGAAA GAGGAAGAGA
GAGATGNCAA AGCCTTTTAC AGTTGGGTGT TGGNGTITAG AGACCCAGTA CCCAGCCTG ACATACCTAC AGAAGCAGTG
AATTTACTTA TTTACTGTIA TGAAAAAAT AGATGCTGCC AGCCGTGCAC AGCAGAACT ACTATTGANT CATATGGTTT
TAGCCITCAC CITTAATAT GTCTAATTAT ATG

SEQ ID NO:1382: (Length of Sequence = 296 Nucleotides)

CTCCACAGCT GCCACATAGA ACAAGCAAAT CTGACATCAC AGCTCTTTTA AAAATCTCCC AGAATTCTAC ACTGGAATAA
AGATCACCCA GTAAACTCAG CTATGTTGAT TCGTAGGAAT TTCTCCTTGG AGTTAATAAT AATCATTAGA AAAAAAATAC
AGGAAGAAAT AACTTCTCC TATTCITTAT GTGATAAATT GTACCAATAG CAGACATTGG TATATAGATC CTATAAGCGA
CAAGAGGGAA AATAGGATTT GCAANTTAAG CATCTGGAAT AAATATTTTA GGAAAA

SEQ ID NO:1383: (Length of Sequence = 293 Nucleotides)

CCAAGGACCG GGCCGTGCGG CTGCTCTGGG ACGCTTGTGT GCGGGCTGTC CGCGCCGACT GGTACGGAGG CAATNACCGC
TCGGTCATCT GCTCTGACCA CTTTNCCTCA GCGTGTCTTC ACGTCTCTTC GGTTATCCAG AAGAACCTGC GCTTCTCCCA
GCGNCTGAGG CTGGTGCGAG GCGCGTGGCC CACCTGCGAN CNGGTGCCCG CCCCGGCACC TAAGAGGGGA GAGGAGGGAG
ACCAAGCAGG NCGCCTGGAC ACGAGAGGAG AGCTTCAGGC AGCCAGGNAT TCT

SEQ ID NO:1384: (Length of Sequence = 378 Nucleotides)

GGTGGTTTIG ACATGTAGAA AATAAGATGG AAGGCTGAAC TAGGGCAGTG GTGTTGGCAA ATAATCAGAT TTCAGGAATA
TCACAAAGTG AGGNGCCGAG GATTTCATGAC CATTTTATG TAGGAATAAG GGAGGAGCCT AGGATGACTC CCCCAGTTT
CTGGCTCGAG TAACTGGGAT ATCAACAAGT CATTTAGCAA AATAGAGAAA ATAGGAGAAG CAGCAATTIG AGATAGAGAT
AGAGGCAATA TAAAGNNTTA TATATTGACC ATGGTAAATC ACCTAAATTC AGAAAGTTGT AGAAAACCTG GGTCTGGANC
TCAGGAAAGA CACTGGATAT GTAGATTTGG AAGTTATCA ATCTCAAAGT GATTGCTT

SEQ ID NO:1385: (Length of Sequence = 204 Nucleotides)

TCATTCTTGG GTGTTTCTCG CAGAGGAGGG NTTTGGCAGG GTCATAGGAC AATAGTGGAG GGAAGGTCAG CAGACAAACA
AGTGAACAAA GGTCTCTGTT TTTCTAGGC AGAGGACCCC GAGGCCCTTC GCAGTGTITG TTTCCCTGGG TACTTNAGAT
TAGGGAGTGG TGATGACTCT TAACGAGCAT GCTGCCTTCA AGCA

SEQ ID NO:1386: (Length of Sequence = 238 Nucleotides)

CCCCATCATG GGCAGCCAGA GCTCCAAGGC TCCCCGGGGC GACGTGACCG CCGAGGAGGC AGCAGGCGCT TCCCCCGCGA
AGGCCAACGG CATGGAGAAT GGCCACGTGA AAAGCAATGG AGACTTATCC CCCAAGGGTG AAGGGGAGTC GCCCCCTGTN
AACGGAACAN ATGAGGCAGC CGGGGCCACT GCGATGCCA TOGAGCCAGC ACCCCCTAGC CAGGGTGCTG AGGCCAAG

SEQ ID NO:1387: (Length of Sequence = 295 Nucleotides)

TTTTTTTTTT TTTTTTTTTT TTTTANTTAG GCAAGAAGAG GTGTGAGTAA TTGAGGAAAA ACTGACAGAT GCTTTTCTTA
ATACCAAAAT TGAGCTTACA ATTAGGAAT GAGTATGTGT AACAGNTAC AGGTGACAGT GAAGATAGAA GAACCACENT
GACCACAGAC TCAATGTGCT CTGTACATC GCACAGTTTA CCCAGCATGA CTTTCTTAG GAGSCCCCT CCTCACGCTA
GAGTAAAGT CCCAGTTAAG TGAAGCCTAC CAGAAGAACT AGTAGAAGAA GCTTT

SEQ ID NO:1388: (Length of Sequence = 201 Nucleotides)

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GCTAGINATC TCTCAGACAC TTGGTCGGTA GAAAAGATCC CGCACCATCC TCCAGGNTCC AATGGCCTTG GAGAGAGGGC
 TGCAGGGCCC ACGNCATTG CTGACTCTTT AGAACGTGCT GACATGGAGC CAGACCACTC GGCCCTGAGT GCGGCGAGGA
 CCCINTTTNT GGATGTGGAG GAGCGCGGGC CGGAGCATTG T

SEQ ID NO:1389: (Length of Sequence = 399 Nucleotides)

GGTGCCCTGT TATCTGTAA AAGAGCCACT TATGACCTCA GGTGCTACTT AACCTGGGG GCAATTGTTT CTTAGGCCTA
 GCAGATGTTT GGGATGACAC TAAAACTCA GTGGTGAGAT GATTCCCTTA GCAAGATTGC TGAAGTTAGG TTTAGACGTG
 GGAGGGTGGG TATGTGAGCA ATGGTGCCAA TAGCGGCTCT TTATTGCTT TGTCCTCATT ACTGCCATCA GGAAGGTGCT
 ACTGGCCTCG AGCCAGGGTG TTCATAATCT GGCTTTGGGT TAACCAGACA AATAGAATT CTTTTCCTAG ACTGTTGGCT
 TTINIGGAGT TGGCAGCTC TATCAGAGN TAAATTTCC CAAATCCATT TACCCAGTAT ATTCACTACA ATTTTTTCC

SEQ ID NO:1390: (Length of Sequence = 381 Nucleotides)

GGATTGAGGT GAAGATACAA CAAAGAAAGG AAATGAACG GAATTATTAA GAGGGTCAAG TTTGATAGGC AGATAAGACT
 AGGTATCAGC AAGACATTTC AAACAAAGG AACATTATGT AATTPTTTAA AAAAATACAT GAAATAATA TTTAANCAAG
 GAAGGAATAT GATAAAGAN GGATAGTTAG TAAATTTGG ATAACATAAA GATTATTGAA TCTCCAGTCG TCAAATTTAT
 CCTAAACTAC TGGGGAGAGG TCTCATGTCA GATTTTGATT ATCGAGAAAG AGGGGTCAAG AGTATAAGNG AAATTCCTTT
 TTGTTTGAA CTCCAGTGT CCNCTATTG TGGGCAAATA TCAAATTCAA ACCAAATATA C

SEQ ID NO:1391: (Length of Sequence = 327 Nucleotides)

GAAGAAGTCC TTCTTAAGCA AGGCTTACAG ACTCCCAGGG AGAACAAAT CTCTTTATCT CTCTGGGGTT TTAGGACCTT
 CATCAAGTCA TAGAATTGAA ATAGAGAACA TCAATTGTC AACTPTTTAA TTTTAATAGT TTTGTAGTA CATAAAATC
 ATGTTATGAA TTATTTTGTA GTTTTAATTA TAACPTTTT AGCACPTTTA CCATATTCTT AAAAATTAAA AATTATGAGT
 NCTGAGAAAG CAGTGAAATC ACATATAGGT ATTTGATTAA CTTTATGTG ATCTTTTACC TCAAGCTAAT GTTCTTAA
 ATCAAGG

SEQ ID NO:1392: (Length of Sequence = 223 Nucleotides)

TTTTTTAATA TTTAAACAA TTTATTTCAT GAAATATGC TGTACAATGC ACTCTACACA GCCTCGACAC GGCACACAG
 CACACGCACA CTCTGACGGC ACGGCCACGG TACACTGCCT ACGATACGG CCGGGGACGC CGCGCCACC GCCCGTCCCG
 GCCGGACACT TATAAATATG GGAGAAGGGC CAGAACTNGC GCGGAGAAAG GGGCGTCGGG GTT

SEQ ID NO:1393: (Length of Sequence = 296 Nucleotides)

GAAAGTTTAT TATTTCCAA TGTCCTTAC ATTTCATTT GGAAATATCA TTCTGACAG AATAGNTAC ATTATACCTT
 CGAAAGCAGA AAGATCTTAA TTAATTAAAA CAGTTTACAT TTACCTTAGC ATTAGGTCTG GCTGGCTAAT TTCAAAGGAT
 TAAAAATTGC ACCNATTTGG GCCAACTGGG GTCTGAATA ATTATCCNGG GTAAAAGTAT AATATTTTAT ACITTTATACA
 TTTTGCTTCA TCACACATTT ACTTCCACA CAGTGNICAA CTTCACATTT AAAAAG

SEQ ID NO:1394: (Length of Sequence = 281 Nucleotides)

ATCTTTGCAT CCCGGGACG ATTTCCAGTT GAGCATGGTG AATAATCTTT TTGATAGGCT GTTGGATTG AGTTGCTAGT
 ATTTTNTGG GCATTTTGC ATCTGINTC ATCAGGGATA GTGGCTTCA GCTTTCTTTT CGTGTGTG TGTCCTGTC
 TTGTTCTGGT ATTGGGGTAA TATTTGCCIT GTAGAATGAA TTTAGAAGAA TTCTTTCTT TTTGATTTTT TTGGAATAAT
 TTAAGAAGAA TTAGTATTAG TTCTNCTTTA AATGTTTGGT A

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SEQ ID NO:1395: (Length of Sequence = 323 Nucleotides)

CTTTTAA GATTTC AAC TGGGTTACAC ACTGGAAAAG GCTGGGTAA GGGCCGAAAT TTAATAAATC TGTACTGATA
 ACTAAAGGCT ACAGAGATTT CATATATTTT TTTTAACTTT TAGAAATCAG AGTGCTTATA AAATGGCTGG CTCATGGCTC
 TGTACCCAG CATCTCTGAC GCGCCTCCT AGCCTTCGTT GGTGAGATAA CCNGGNATAG TGATTCCATG CGTAAACAAC
 AAGAATACTA AACCAATAAA ACTAGCTTAT CATGCAAATA TTANGGCATC TAGAAAGTCA GTTAAATAA TATTGTCATA
 GAG

SEQ ID NO:1396: (Length of Sequence = 384 Nucleotides)

TGCCCTCCCG GTTCATGCGA TTCINCCGCC TCAGTCTCTT GAGTAGCTGG GATTACAGGC ATGCACCACC ATGCCTAATT
 TTTGTAAGTGA TGCCAGCACT TTCTTAGCAA CCCCAGCTGG TGTCTAGTA TGCCCCCTCC AGTCCACTGT CTCGCGGCC
 AGTTCAGCGC TAGGACTTGC TTAAGAGTTT CAGTCCCTGT AGCCTATACT GCCTTINACG TTTATTTAGA GATCTAGAGC
 ACTTTAACCC TCAGTGGCAA GGTGTGTTGG AACTTGAGTT CGGACCCTG GGATTGGCAA ATTCCCCTCT GGGCTAGGGT
 TGCCTTAAAT GCTCCCTTCA CGTGTGGGCA ATCAGCTGAG TTTGGTCCAG TTTTCTTTT TGCT

SEQ ID NO:1397: (Length of Sequence = 370 Nucleotides)

TTGAGTTTNT TCAGTGGCAT CCCCTGCTCC CCTGAGCACA CACAGTGTTC TCTATTTATG ACTGTAGTGC CAAGCAGAAT
 TTCCATGTC TGTAGCTG CCCATTCTCA CCCCTCAGGG TCTCATACTT CTCCTGGAA GCCTCCCAAG CAGTCAATGT
 GACAGGGACC AAGTATGTAC AAGGCAACAT ATTGGGTTC AGTGCAAACT AAGGGAACCA GGGCTGTTC TTTAGTTTG
 GAAGTTTTTC TTTATCTTAA GAAAAGAGAC AGACCAAAAC CAAGAAGATC AACAATAACT CTTCTCTTTG TCATCAGGT
 GATGACATCA AGGTACTGAT ATTAACCAGA AGTACAACA AGAAGGAATT

SEQ ID NO:1398: (Length of Sequence = 307 Nucleotides)

ATCAGCATTG GGTTCACCC AAAGTGATAC AAGTCTGAAG GTCTTCATCA GCAGTCTCCC TCATAGTCAG CGCCATACCG
 AAGAGGCTG TCCCTCTCAT AGGGCCTTCC AGCCACINCT TCCCCACAGG CCTGATTCTN CTGTGGCTGG GAGTGTGGAC
 TGATTGTGTA TGATGTGAGA GATCCCNNGG GGTTGTAGCT ACCGCACCTG GCTGAACCTT CAAGGAGAAG TTTGTGCATC
 ANTTTTCAAA AAATTATGAT ATCAAAGAT AGCTGTGCC TACATTGGG AAAGATACAA AAACCTTG

SEQ ID NO:1399: (Length of Sequence = 380 Nucleotides)

CTGAATTATT GAGGATGAAT TGATAAAGAC AGGTGTAATG AACTGAGGCC GGGCATTAGA CTGAGCAGCT GACTGTCCCT
 CAGAAACCAT AACCTTGCTA CCCGATTGG GCATTGTGAC AACTGTGAC ATCAATGCAG ACTGCAAGIN AGTTGGCAAA
 GCTGCTGATG TGTAGCTGA AGTTGTGATG GGATTGGAAG TGACAAATAC AGTTATTTGA TTTGGGGCA AGGGAGTNGA
 AATGGAGGAA GAGCTAACAG GTCTTGACAT TACTGGAGGG ATGCTTGGTG CAACGTTAGA ACTGACCTCA CTCATTCGG
 GGATGCACAA GGGATGAACA CAGCTCATTT CTGTINAGGT AAGTTTAGGG AATTAGAAGG

SEQ ID NO:1400: (Length of Sequence = 232 Nucleotides)

ATTATAGATA CACACCACCA CACCGGCTC CTCACATTAA AGTGGGNITA TGACCATGAA CACTTCGTAT TAATAAATGT
 CTCAGCACAC CCAAGCCTGA AAATCTGATC TAACTCTCT TAACTTGAAT TCCATCCACA ATCCACAAC TNCCTGGNAA
 AAATNTNCC CAGCTTCTCC TTCTCTAGC CCAAGAAACA GCCTTAACAG CGNGCGATTT CATTCCTACA CT

SEQ ID NO:1401: (Length of Sequence = 349 Nucleotides)

AAGCTAAATT TATAATGAAC AGATTGAAGA AAAATAAAGA GCTACAGAAA GTTCAGGATA TCAAAGAAGT CAAGCAAAAC
 ATCCATCTTA TCCGAGCCCC TCTGCAGGC AAAGGGAAC AGTTGGAAGA GAAAATGGTA CAGCAGTTAC AAGAGGATGT

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GGACATGGAA GATGCTCCTT AAAAATCTCT GTAACCATTT CTTTTATGTA CATTTGAAAA TGCCCNITGG NTACTTGGA
 CTGCTAAATT ATTTTATTTT TTACATAAGG TCACTTAAAT GTAAAGCGT TAAAGACAT CTTTNCINGC ATTGCCATCT
 TAATATC AGATATTACG GGATGTTAG

SEQ ID NO:1402: (Length of Sequence = 338 Nucleotides)

GTAATTGCTA TTTGATGTTA TTTTAAGAAA TTAACCCTTA AACTTTAAT TCCTTAAAC AATCTCAAAC AGAAGAAGCA
 AAAGCTTGTN CTGTGCTCCA GGAAATAAGA TTCAGCACCA ATGAAAATAA ATTATAGAAA ATCAGAAGAT GGGTCAATAT
 GAGTGGAAAA AACCTAACAT TTTAATTGTT TTTNCTCTCA ATAATTGTTG TGAACCATCC AAAAAAGTAT GATACAAAA
 TAGCACTATA CTAAGAGCCA GATGACATGT CCTTAAAGCC TTAGCTCTGC AAATTATTGG TTGTGTAACA CTAGGNNACA
 ACACCTAGNC TCTCCTAG

SEQ ID NO:1403: (Length of Sequence = 381 Nucleotides)

GGAGTCTCAC TTTGTGCCC AGGCTAGAGT GCGANGGCGT GATCTTNGCT CACCACAACC TCCATCTCCT GGGTCAAGC
 GATTCTCCTG CCTCAGCCTC CTGAGCAGGT GGGGTTACAG GTGCCCGCCA CCGCACCCAG CCAACTTTNT GTTCTCAGCA
 GAGACGGGCG TTCGCCATGT TGGTCAGGCT GGTCTCGAAC TGACCTCAAG TGATTTGCCC ACCTTGGCCA CCCAAAGTGC
 TGGGATTATA GCGTGAGCA CTTCACCCTG GCCTCTAAGC TTAATCATTT CTAGGCTTTT NATTTAAAGT GAGAAACATG
 TGACTCTTTC CTTTCATTTG GGACACTTTA AAAGGGGTTA TTAAATTGAC CCTAATTACA A

SEQ ID NO:1404: (Length of Sequence = 325 Nucleotides)

AGCTCATCAG CTATCATTTG TGTTAGTGT TTTNATGTAT GGCCCAAGAC AATTCTNCTT TTTCCAGTGT GGCCAGGGA
 AGCCAAAGA TTGGATACCC CTGACAGGAT TCCAGGATTC TTTTGTAAT NCTCAGAGGC CCTCTGTGCA TACTCCGTAA
 GGACTATCCA CATTTCTTAT TACTTTCAIT GGCAATAGGT ATAAATTTT ATTTGTGGN TATTTTACTG NAATGTTACT
 TGTTTTTGCT TATTTACTGA TTGGGTGGGA GGAAGTCAA GGATGAATAA ATCTAACCN TTTTAAAAAG GAAAGGCTAA
 AAATA

SEQ ID NO:1405: (Length of Sequence = 349 Nucleotides)

GGATTATGAC TGAACGTCCT CAGCATGTTG GCCTTCACCC CTGGCGGTGG CTGAACACA AAGATGCGGC CCGCAGGAG
 CAGATTCACA GGCACCTTGG GGTGATCTC CATGGTTAGG AAGAGTCGGA AGCAGGCATG CGGCTGCAGG GAATGCAACT
 TCTTCTCCAG CTGCATCAGC CACCCTGGGG CCAGATGCAC ATTCTTCAGC ATCACCACC TGCCCGANTT TACAAGCGGT
 GTTTTATTGC CTTATCTGCT TNGTTAAAGC CTCTTCAGA GCCGATTGCA ATTGAAGGGA TCTTCGGGGT TCTNCTCGGC
 TNCAAAGGTC CTCGACAATG TTCCCTTG

SEQ ID NO:1406: (Length of Sequence = 392 Nucleotides)

GGACTGCCC TTTGTTTATG AGACAGGGTC TCATCTGTG ACTCAGGCTG GAGTGCAGTG TCATGATCAT GGCTCACTGC
 AGCCTCGACC TCTCAGGCTC AAGTGATCCT TGCATCTCAA CCTCAGAGT AGCTACGACT ACAGGTATGC CCCACTATGC
 CTGGATAATT GTCCTTTT TTTTTTGGT AGAAACAGGG TCTCATTCTG TTGCCAGGC TAGTCTCAA CTGCTGGACT
 CAAGTGATCC TTCCAATCG GCCTCCCAA GTGCTGGGAT TACAGATGTG AGTCACAAATG NCCAGCATGG ATTGTCTTT
 TCAGACCCAG ACCAAAGAAC AGGACTTATT TGTCCCAAGA CCAATCTAGG NAAAGTATAA GCTGTGTGT CA

SEQ ID NO:1407: (Length of Sequence = 362 Nucleotides)

GTTAATTGGG NTTCACAAGC AATAATTTCT CCACAACAA AACCACAAT TGAAGNGAGT TGAAAAGNGN TCAATAGTGG
 AAACAGTCGC CTCAGTACTT TTNCTTCTG GNTTTCATCT CTAGAAATT NAAGTGTPTN AGNCAGAGTC CACCCTTTG

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GCAAGGCGNG AACCNATGAA TGGACTCCTT GTGTGAATTA TTGCATCTTC TTCCAAAGCA GGTTTCATCA GACTTTTCACA
GAGATTTCATT TTINITGAGA AGTAAGGGTT AATAGGAGGA TAGAATTTGG TTCCNAATCT AGTGNATAAA GTGTCCAAGC
AAATCAAAAA GTAAGATATT TTAGGGGCCA TACCCACATC TT

SEQ ID NO:1408: (Length of Sequence = 388 Nucleotides)

CCCCGAGCA CCACGAGCTG ACCTCGCTCT TCGAGTGCC GGTCTGCTTT GACTATGTCC TGCTCTCTAT TCTGCAGTGC
CAGGCCGGGC ACCTGGTGTG TAACCAATGC CGCCAGAAGT TGAGCTGCTG CCCGACGTGC AGGGGCGCCC TGACGCCAG
CATCAGGAAC CTGGCTATGG AGAAGGTGGC CTGGGCAGTC CTGTTTCCCT GTAAGTATGC CACCACGGGC TGTTCCTGA
CCCTGCACCA TACCGAGAAA CCAGAACATG AAGACATATG TNAATACCGT CCTACTCCT GNCCATGTCC TGGTGTCTTC
CTGCAAGTGG CAGGGGTCCC TGGGAAGCTT TGATTGTCCC ATNTAATGG AACGGCCAC AAAGAGCA

SEQ ID NO:1409: (Length of Sequence = 348 Nucleotides)

CAATGAATC CTTAAGCTTT GTTAATATGA GAATGTCTTT ATCTCTCTT TATTTCCAAA GGACAGCTTT GCTGGTTAAA
ATATCTTGG TTAAGTTTGG TTTTAGTAC TTAGCATATA TCAITCCACT CTCTCTGGC CTGTAAAGCC TCTGTGAAA
GATCCACTTC TAGCCTTAT GAACTCCCT TCTATGTAT TCGNTCTNC CTCTGTCTC TTCCAACATC CTGTCTTTGT
CCATAATTTG TAACAGATTG AATATAATAT GAATTAGNCC TCTTAGACT GAATCTCAT GGAGNCTTTT CACCCTCTT
GTTTTGGGT ATTTATNTCT TTTCACAG

SEQ ID NO:1410: (Length of Sequence = 370 Nucleotides)

GACTATTTAT TCTGCCTTAA ATCAATGGCA AATAAGTCAA GATGACATTT TGTAATGTA GACTATGGAT ACACTCCTAA
TAGATTGATG TAGTCATAAA AGGGGGTCAA GTAGATGTTT TNCGTATG TAAGCAATAA TTTTCCGTG TCTTATTGAG
TATGGCTAGC GATTATTTAT TACATGCTAG ATGGGTTCCT TGCATGTGGG TTCCATATAG GTGCAGAAAT TTCCTCAGCC
ACTGGAGGGA TTTGACCAT ATTGTCAIT TGGATGAGCT GTTATTAGAT TGAAATCTAC ACATCATTTT ATTAAAAATT
GTGCCCTAGA AAACGCAAAG CTNTGCACA ATGGCGATTA AAATTATGGG

SEQ ID NO:1411: (Length of Sequence = 385 Nucleotides)

GTCTCAAAC CTGACCTCA GCGATCCAC CCACCTCAGC GTCCCAAAGT GCTGGGATTA TAGGCGTGAG CACCGCACCT
GGCCTATGAG TGGTCTTTTA ATTAGGAAAT TTACATTTTT ACATTAGTGA GATTGGTCTT TTGGGCTATT GTACTTTTTT
TTTTTTTTT TTGAGATGGA GTCTGTCTT CTCACCCAGG CTGGAGTGCA GTAGTGCAAT CTGGGCCAC TGCAACCTCT
GCCTCCTGGG CTGAGTGAT TCTCTGCCTC AGCCTTCCAA GTAGCTGGGA CTACAGGCAT NTGCCACGC ACCTGGGGTA
ATTTTNGTGG TTTTAGTAG AGAATGGGG TTTTGCTAAT GTTGGCCAG GCTTGGGCTT GAAAT

SEQ ID NO:1412: (Length of Sequence = 337 Nucleotides)

CCATTCAGAT TCCTCTGGG CCTCTCGCC CCATTTGCGA CAGATTGCT ACCTGCTCCA GCTCAGGAC CCTTCCCTCT
ATGATGAAGT GCATTGAAGA GAACAATGGT GTGGACAAGA GGATCAGCAG GTTTATTCTC CCCATCGGG CCACCGTGAA
CATGGACGGA GCAGCCATCT TCCAGTGTGT GCGCGGGTGT TTCAITGCGC AACTCAACAA CGTAGAGCTC AACGCAGGAC
AGATTTTCAC CATCTAGTG ACTGCCACAG CGTCCAGTGT TGGAGCAGCA GCGTNCAN CTNGAGGGGT CCTCANCATT
GCCATTATCC TGGGAGG

SEQ ID NO:1413: (Length of Sequence = 367 Nucleotides)

ATAAGTGGAG TGAAGAAAT AATGCATAGT TCAAGCCTAA ACAATACAAG CATCTCAGC TTTGGAGTCA AACTGAAAA
TGAAGATCAC CTGGCCAAGG AGCTGGAAGA CCTGAACAAA TGGGGTCTTA ACATCTTTAA TGTGGCTGGA TATCTCACA

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ATAGACCCCT AACATGCATC ATGTATGCTA TATTCCAGGA AAGAGACCTC CTAAAGACAT TCAGAATCTC ATCTGACACA
TTTATAACCT ACATGATGAC TTTAGAAGGC CATTACCATT CTGACGTGGC ATATCACAAC AGCCTGCAAG CTGCTNATGT
AGNCCAGTCG ACCCATGTTT TCCTTTCTAC ANCAGCATTG GACGGTG

SEQ ID NO:1414: (Length of Sequence = 360 Nucleotides)

GTATACAGCG TGGTCCAGCC ACCCGACAGC GAGATGGGCA TTTTAAGAAA CGCTCTCGGC CAGATCTCCG AACCAGAGCC
AGAAGGAATC TTTACAAAAA ACAGGAGTCA GAACAAGCAG GGGTTGCTAA GGATGCAAAA TCTGTGGCCT CAGATGTTCC
CCTCTACAAG GATGGGGAGG CTAAGACTGA CCCAGCAGGG CTGAGCAGTC CCCATCTNCC AGGNACATCC TCTGCAGCAC
COGACCTGGA GGGTCCCGAA TTTCCAGTTG AGTCTNTGGC TTCTCGGATC CAGGCTNAGC CAGACAACCT GGGACGTGCC
TCTGCATCTT CAGACAGAAT TNCAGCCTG CCTNAGGAAA

SEQ ID NO:1415: (Length of Sequence = 314 Nucleotides)

CTCAAAACACA GCATTTGAAG TCTTAATATT TTAGTACATA CTACTATATC TCINCTTACA ATTGTTTTTT GTTAAAGAAA
CCATGTTTTT NATCTAAAG AGTTTCCTTT ACTGTGGATT TTAGTGATIG CATCTTTGTT GATGGGTTAA GATTGTCCNN
TATAGCAT TAGTNCCTTC AATGTGCTGT ATTGAGTGT GCTCTGGGC TCCTAAACTG TGGAGGGCTG TTTGTCCCTA
TCTAAATGG GGACAGATTG TCCTGCTTTT TAATTTTCAA TGCTGACTT TTACCCNCTA ACTTTTCCGT AGAT

SEQ ID NO:1416: (Length of Sequence = 370 Nucleotides)

TTCCATTTTT GCTCCTCTC AGGATAATAG CAGACCGGTG ATCACAACCT TAGTTTTGAT GAGATAACCT CCTTATCT
TAAAAATGGT CTCTATTATT TTCCAAGAGA AGACCAGTAA ACCTAAACA CCTGCCTTGA TCTCAGTGTG TTAGATGTTT
TCCTGTTTCT CCTTTATCCT AGCAAACTCC CCAGGTGCT ATTCTTATTC CCATTTTATA GATGGGCAAC TGGGTAAAGAG
AGGTAAGCTT GGTGAGGTCA CTGAGATAGT GGGGAAAGGA GCTTGGTCA CATCAGGTAT GCATTCCTCC AAGGTCCAC
TGGGCTATCT GAAGGAAGGG GTTCTTGAA GTGCAAAATA TAGGGTACTG

SEQ ID NO:1417: (Length of Sequence = 365 Nucleotides)

GACTCCTTCG CCAAGGAGC CATCAGCACC AGTTGTTCCA GAGCAGCCAC AACACCAGTG ACCTCCCTTC TGCTTCGGC
CAATCCCGAC AGAGCTCTT CCCGAGTCTT GAGTCTCTGG ATAGCTGCCT CAATAAGCA GGACTCGGA GTGTGCTTCT
CCTCTGCCAG CTGCTGCTCT AGTGCTACTT TCTCTCCAG AACTACCGG TGCAACCT GCTCCTTGA GGCCAGCAGC
AAGTTGGAGT ACTGGCTGTG CTGTTTATCT CCTAGATGAA TGGGATGGTC TACATTCATC CATTTGGGAT TTTGGGCAAA
AGCCACCAAC AACCCCTTTT TTTCCCTCTT CAATCAAGCT GCAAT

SEQ ID NO:1418: (Length of Sequence = 354 Nucleotides)

CCAAATCCTT AAGTTTACAA AGCTGTGGA AAACCTTGTG TCCTGATTTC AACAAACAGC CTTTGTGGA AAGATGAGCC
AAGCTCACAG AACTAAATT TTATGTCATG CCATAAGCTG GAGAGGAGCC ATTGGCTAC AGCTGCGGAA CTTCATTGAG
GAGCAAATGA AAGGCACATG GACGAGCAG CTGGTGAGT TCATGTTCTT CTGCTGTG AATTGAATAC TGTCTGGTA
GCAGTTTGG GTGCGTCAGG AGCTCAAGGC TGGTTGTGT GGCTGACTAC GGATGAGCAC TGAAGTTGCC TCAAAGAATT
AAGGGGTGTC CACANCAGCC TCTTGGGTC TTTT

SEQ ID NO:1419: (Length of Sequence = 363 Nucleotides)

GTGGAAAACG TGGAAATGAT GTGGCCACTG AAAGAAATTC AAGACAACG AAACAACGTC AGATTTCCAT TTTAGCTCG
TGTTTTCTTA TGAACAATAA CATTGCAGAA GGGGAAATAT CAGAAAGTTG ATTGATTTTT AACCCAAAAA TAGAATTTTT
TGTAAGCTAG GAAAGCATCT AAAATTAACA AGAATACAAA AATGCACTTT TGTTTACATT TGCTCTATTT AGATCTTACA

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AGAGATTATG TCTTGAATCT ATCCTGACTT CAGCAAAAGA CAAAAGAACG TTGAAAACAT CCTATTTCCA AATCGTTTAC
AGGAAGTTAC CTAAGGAGNC TGACAGATTG AACGGCTGCT ACC

SEQ ID NO:1420: (Length of Sequence = 326 Nucleotides)

GAAGATTTTC TAGAAGCAAA TAGTGCCACC ATCCGTCATG AGGNTCTGTT TCTATAACGC TTGINTGTCT TTNAGACTAC
GTAGGTGGTA GCATTAGAGT AGTAATGTNC TTTTGTTAGT AAATGTCACC AAATAAGCAA ATAAGAGAAA CATGAAGGCC
AAAAACTGIN TTACTATICA GGAGAAAATG GACGGTTTAG CAACAATACA ATGTAGACTT CAAAATATGA AAAATCAAGG
AAATTINCIGT CATTGTCTTT AAGGGCCTCC AGAGAAGTAT TAATTTGTCC TTTATGTGAA TTTAATGAGA TCATGTGAAA
TGTATG

SEQ ID NO:1421: (Length of Sequence = 294 Nucleotides)

ACCCAGTACA GGTACTCTCA CAGGAGGCAC TCAGCAGGGA TGTAGTGACA GCAGGTAAGA NTCCACCTCT NTCCTGCCT
GNCCTGGGA TCCAGTATTG CCCCATGTAT CINCOCCTAT TCCTCAGGCT TCCTGGACTT TTNTGGAGG GAAAGAGGAA
CAGAAAGAGG AGCAGGCAGG AGAAGCAAGA GCTCCCGGG GCTATGAAAG GTAACATACC TGGAGAGTTT NGGGAGACGG
CGGCTTGINA GAGACAAGGG GAAGAGACAG AACAGGAGT ATTCTAAGAA GCAT

SEQ ID NO:1422: (Length of Sequence = 306 Nucleotides)

GAAGGGCATA TTTAATAGCT GCTGCAAACA TATGGAATAG TGCTTTAATC AGTGGTGAAC AAGAAATTC CTGTTGTGG
TTATAAAAC AAGGGACATT AATGINCTTG TTCTGTACC ATAGTAATGT GNAAAAAAA ATAGTGGTGG NAATGGTGT
TAATTTGTAC AGTTTGIGTC AAAGTAGAAT GGGNCAGATA TTTTGGTGA TAGGCTTTTG TCTTAGTTAT AAAAATTAGG
NCATTTGGTA TGATAAAGG NGAGAATCTT AACAAATGGG CACTGGCCCA GAAAATTNCA GGGTGC

SEQ ID NO:1423: (Length of Sequence = 274 Nucleotides)

TGTTGTGTG TGTTGTGTG TGTGTGAGAA ATGGGGAAAG ACTGGTCTAG ATAATATTTT AGGTACCTTC CAACACTAAA
ATGGTATGAT TCCCAGCTTA CAAAAGCAA ACTATTTTAA TATTCACCAC TCAATATAGT GTATCAAGCT CTCGGTTTAT
GTTAAGGGC TTAGGGAACA GCAGCAACTA TTCGTGGGCA ATTAAINCAA AAATCATGT TACCAAAAAG GCATGTTTAG
GNCTGCAGG ATAGTGAAAA AGCAAGAACA GTCT

SEQ ID NO:1424: (Length of Sequence = 297 Nucleotides)

GGAGGATTAC TTGAGCCAG AAAAAAAAAA AAGCCTCAGG GTTTTCGGTG AATGTGTGTG GGACTTCCGT GAGAACAGAC
GTTTGATGTG AACTGANITC AAGGCTGATA CAGCCAGAA CCAGGNACAA GGTGAGAAAC TGCTCGTTTC CGGGAGGCAG
GACTTCCTAA CCGGGAGGCA CTGCAGTNC CTTCTGAAA CAGGTTTGA GGATAGGGAA ATTCTGNCA GCCCGGGGGG
ATCCACTTAG TTTCTTAGNA GCGGCCGCCA CCGCGTGA AGGCTCCAGC TTTTGT

SEQ ID NO:1425: (Length of Sequence = 276 Nucleotides)

ATTTTTTCAA GGATGGAAAG GTCAGAGAAA AATAAAATAA AACATCTTTC AATAGTCTTT CCTGGTAAAA GCAGCGTCTC
TNTGGGCTGG GGAGTAAAGG GTGTGGGGCA AGGGGAGTGG GGAGAGGCTG TAAACCTTCC CCCAAACCCC AGTTTTAGAT
CCTTTGGTTT CCTTCTCCCA GAAGATGGNC AGAAGGGCAT NGTGGGNAAC AGCAGGGNGG AAAATATGGT GATGACAAAC
CCCAGATGAT CAAGGGGCTG ATGCTCCTGG GGGCCA

SEQ ID NO:1426: (Length of Sequence = 295 Nucleotides)

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TAGTGGCATA TGGACCGGAA AGGGTTAATT TAAAGGGGGG GAACCTCAAA AGTTTTTTTA AAAAAGAAAC TTGTCTGCCA
CAGTATGTTA CCAGTGTTAA CCTTCTGCC AGTTAGCAAA CTTTTGCCTT AAGCCTTTTT CCTCTAGGAT ACTCCCCATG
TTTCGGTAAT CTGGGCATA CATTTTTTAA GNATGGACCT CTTTGCCCTG TTTTGTTC ATGCTGCTGT ATGTCCAAGT
ATTGTTAATT TCATAATAAG ACAAGAGTTG CTTTCTTTTT TAATTCCTTT TTCCC

SEQ ID NO:1427: (Length of Sequence = 207 Nucleotides)

TCAGGAATGA TAGTATCTGG GATGAACTCT TCTTTAATAA GATTGAGGCC AGTNTGGTG GGTGINTGCG GATGATTGTT
ACTGGNGCAG CCCAGCATC ACCAACAGTT CTGGGAATTT CTCGGGCAG CTCTAGGGTG CCAGGTTTAT GAAAGGTTAT
GGCCAACTG AGTGCCACAG CTGGATGTAA CCTTNCACCA CTCCTGG

SEQ ID NO:1428: (Length of Sequence = 223 Nucleotides)

TAACATTCTC TCCAACTCC CCAGGTCCCA TCAGTGTTGA GAAGGAATCT AGGCCAGCTC CTGGGAGATG CCAGTTAAGC
CGCTTTGAAT CCGTGCCCTT TCCAATTGNC CCTTATAGCA GTCGATGTCA GGGATTGGGA CAACTTTCAA AACAAAGTCCA
TCAAAGTCCC CATGGGCACT AGGGGCTCTG GGAACCCAGT GTCGAGAGGC TTAGAGNCAT TGC

SEQ ID NO:1429: (Length of Sequence = 222 Nucleotides)

AAAACCAAGG AGCAAAGGGG AGACAGAGAG AAAAGTGGGA TGGATTCAAA GACATTGCAA CATAGAACTN ACCGAACTGG
CTTGINTGAG GTAAGGGNGG CAGGATGACT CACAGGTTTC TGGGATTATG TGCAACAGGT GGAAGGTGAT GCCATTAGCC
AGAATAAGGC TGTAGGCTNA AGGGGAGTNA AACTGGTCTT GGGGTATATA CATTGATAGG CC

SEQ ID NO:1430: (Length of Sequence = 246 Nucleotides)

CAAAATTTCC TGTATCCTTT CATGGGTTTN CTTTGTGTTG TTTTGGTAAG AACATTTAAC ATGAGATGTA TCTTTNAGTT
GTTGTTGTTG TTGANTTTT TTAGATACAT AGTCTCACTC TGTTACCCAG GACTGGAGTG CCAGTGGACA TGATCCACAG
CTCACTGACA GGCCTCAAAC TCCTGGGACC CAAATGAATC CCTCCACCT NCAGCCCTCC CAAGTAGGCT AGGGACTACA
GATGTG

SEQ ID NO:1431: (Length of Sequence = 364 Nucleotides)

CTTNCCTC GATGATGCTT CTATAATTT GCCCTTTAAC AGAACTTTC AAAAGGGAAG AGTTTTTGTT AATGGGGGAG
AGGGTGAAGG AGGTCAGGCC CACTCCTTC CTGCATTGTT TACAGTCATT GGAATAAGG CATGGCTCAA ATCGGCCACA
GGGNCGGTGA CCTGTGCCC CAGGGTTTTG CCCCCAAGTG CCTCCATTTA AAAGCATTAA GGCCGGTACG GCATCTTCAA
AACAGAGGGC TGGCATTGCA GGAAACCCCT GCTGCTTTAG TCCCGATAGG GTATTGAAC CCCGCTATA TTTTAAGGCA
TTTTAAATTC TCTTCCCCC ATTTTATGTA CTTTGAACAA TTAA

SEQ ID NO:1432: (Length of Sequence = 208 Nucleotides)

GTGAGTNAAC ATGGATGGAA ACAAAATTAT AGGTTGTTCA AAGTGAAAA CACCAAAAT AAGATTTAAA AAGAATGTCA
GGTATCCATA GAAAAATATT AATAGGTCTA ATACATATGT AAAANTTGGC GTCCAGGGG GNAGAGACTG NAAAGTTATA
TTTTNNATGG CTGAAATCCC CCCAANTTTA ACATAAAGCA CAACATTT

SEQ ID NO:1433: (Length of Sequence = 274 Nucleotides)

GGAAGGTTTT TAATCATGA AGTATACTG TGATCCTGGA GGTGGAATA GATTGAGTAA AGATAAAGTT TGGCAAAAT
GATTCTNTCC CTAGGATTTG GGGATATGTA AATCAAACCA AAGGCACATT CTGCAGCTCA CAGCAACCTT CATTTTTTGT

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CCTAGATTGA GTTATCTATC AAGAATCATT CATTCCTCT CAGCCCTTGC AACTGTTTCC NATGACTTTG GACTTGGCCA
TGCAACTTGC TTTGGCCAAT ACAATGTGAG TTAA

SEQ ID NO:1434: (Length of Sequence = 249 Nucleotides)

GCTCCATAGG TCTAAGTTTG ANCTTTTCTA GAAAAGGATT TGCAGGACGA TCTGACGAAT CTTGGGCTTC CAAATTAGTT
CCAACAGTTC TAGTATTTTT TTTTITTTTT TTTTGACAGA AGCAAATAAG TAAGTTTINAC TTTGTGATTA AAACAAAAGT
GAAATGCATT TAGTCCCAGG AAATGNCAT CCTTCTGCA TCTNACTTTT TTTTGCTGTG ACCTCGAGNT TCTCTGTCC
TCTTCAGTT

SEQ ID NO:1435: (Length of Sequence = 201 Nucleotides)

GAATGGGGCC AATGGCACTC ACTGINTCTT CAGGCCCCCA CGGACGGCAT GCCTGGGGAA GCCTAGTCTA CTTACCATCA
GCACGTTGAT CTNTCACACA GCATGGAGCC ATAGTTTACA AAGGACCAAG GCAGGTCAAG GACAGGCCAC TAAAACITTT
GGTGCTGGGC ACATNACCCA CCTCACCAN CATCAAAGAC A

SEQ ID NO:1436: (Length of Sequence = 312 Nucleotides)

GGGAAAGGTA TATTAACTTT CTGCATCAA GAITGAACAG TCATGGGGTC TTGGTGGCCA TCTGGTCTGA GTTAGGTACA
GGACAAGAAA GAGTCAATTA ATCTATAATA AAGATCAATG ATTGAAAGAA GGGAGATCTG GTCTCTGTCT CTCCTAGTCA
TTTACAGAAC AAGAGCAATG AGGAAGACCG TTATGCTATA ATCTAAGNAA CAGAATTGGA AATATGCTAC TGACTCAGTC
TCCAGGGGCT TAACITCCCC CTGGCATAA TAAATTTAAG GAGTCCTAAA ATTTTATTTT CCTTACATT GG

SEQ ID NO:1437: (Length of Sequence = 294 Nucleotides)

ATTCCAATGG TAATACTAAC GAATGTGCT ATCTAAATAT TGGATAGTAA AAACGTCAAC ATTTAGAAAA TGTATATCAC
ACAGGGGAACC AATATTTTNC AAATTATCCA CATCTAATAT TAGGCAACCA CGCGCAANAA AAGACACGTT CAAAGTACAG
GAGAAATGGA TGGATTTTAA TGTGAGATAG TACAAGANGT TTATTGATAT AGTTTCAAGA TTCCATATTG TAATAAACCT
TTAANGAAAC TTTCACTTCT TGAGTTTTGG GTATAGGAAT CCAAAAAAAA AAAA

SEQ ID NO:1438: (Length of Sequence = 311 Nucleotides)

GGCCCTTTGA CTTTGTAAT GAGCACAATG AAATGCCGCC TACTGATGCT TCINATGATC AGAACTCTTT TTTAATAAAA
TAAATAACAT AAATCGTTGA ACATAATGTT CCNGTTGAAT GCAAANCAAA AAAAATATGG NAAACATTTT GNTAAAATTT
TTTCCNGNTA AAACCATGAA CANTGGCTAT GATGAAGGTT ATTACATATG GAAAAAAAC TCACACAAGC ATATTTGNAT
TTGGCTTGAA GGGAAACCAT CATTAATGC AANGCTAGGG ATTCTTTTNG AAGCAGTTGA TCCTCAGGTT T

SEQ ID NO:1439: (Length of Sequence = 265 Nucleotides)

CGTGACACAG TTGAAGGAGT CGCTTAAAGA AGTCCAGCTG GAGAGAGATC AATATGCTGA ACAAATAAAA GGAGAGAGGG
CCCAGTGGCA GCAGAGGATG AGGAAAATNT CGCAGGAGGT TTGCACATTG AAGGAGGAGA AGAAGCATGA TACGCATCGG
GTAGAGGAGC TNGAGAGGAG CTINTCCAGA CTCAAAAACC AGATGGCTNA GCCACTGCCC CCGGATGCC CAGCAGTNTC
CTCTGAGGTG GAGCTINCAAG ACCTT

SEQ ID NO:1440: (Length of Sequence = 241 Nucleotides)

GTTTTACTCT TGTGAAGATA GCACITTAAT CCTAAATGAG CATGTAAAGT GTGACAGATC CTATATCAGT TTTAATAATT
GAAGCAGATA GTAATACTA GATTATTGAC ATTTTGTNGT CATGTGTICA GCTATTGCTT CAAACTTGCT CAAATTATAC

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TTGGNATTTT ATAGTGTTTT ATTATTATA TACTCINCTT GTAATAANNT GGTAATCTAG TTTCCAGAAT CATGCAAATA
G

SEQ ID NO:1441: (Length of Sequence = 247 Nucleotides)

GACCCCGATA TTCCGGCATC ACATAGATAT CCTCCAGATA AANGGTGCGT CCCTTCCATG TACTGTAGAT GAAATAGTAT
ATCCCATAGC CCACCACGCA GGGCCCCAGT AGCTTCCCGG GCGCTGGAAG AATCTCTGCT ACCAAACAGT GATAGAAAGG
ATTGINTCCA AAGCCATCTG CTCTCAGGGC TTCTTCACTG ATAGGNGTIT TTTTCAAGNA ATAATCCATG CTAAGAATGG
GGTATTT

SEQ ID NO:1442: (Length of Sequence = 233 Nucleotides)

GATTACAGCC AAGTTCATGA ATACAAATAA AATAGCAATT TCCCTCATTC TCTCTTTTGT TTTCTGNTCA GAGAAATCAG
GAGATGGGAG CATTATGCTC AGAAACCGAA GAGCTCTTCC AAGAGCTCCA GCTTAGAGTC CAGGCTTCCA GAGCATGCAG
CCTCCTAACA CGTATGTGGT CACATGTGCA AAGACCTINTA TTACAAATA TTCAGAGCAG NATTTCTINTT AGG

SEQ ID NO:1443: (Length of Sequence = 288 Nucleotides)

AATAACAAT GTCCAGGTTT TTATACTGA TCGGAAGAAG GTTGACCCNC AGTTATCACC TTTAAAAAAT GGTCTTAGTT
AGGCTTTCTC CTTTGTCTT TTTCCAGAAG AAACCTTGGAG TCTGTCAAAT TTCACAAAAT ACCCTGTGTA GATTTTCCTT
GGCTTTGATA AGGGTGAATT CACAGATTAA TTCGGAAAAG AATTTACGGC TTTCTAATCA AATTGTTCTT TCCAGGGGNT
TTTGTGNTTA TTTAGGNCCT TCTAAAGGTT AACCTTAAC TGTATTAT

SEQ ID NO:1444: (Length of Sequence = 208 Nucleotides)

GGAACTGAGT CACAGGGCCA AAGCCCCCTT TNCCTCAGT GAAGCAACTC AGTAAGATGG CGGTGCAGTG AAGCCTATTC
CCACACACT CGGCACTGAT GGAGCAGTCT CCAAAGGAAG GCTGAAAGGA CAGCAGGTGG TTGCCTINGG GTCCTTCCTT
CCCATANCIT TAGAGTGCCA TTTTTCAGCA ATGGGTAATA GCATCAAC

SEQ ID NO:1445: (Length of Sequence = 239 Nucleotides)

CCCCGGTCTC TNGGACACCA TTTTCTGCCG CTGGACGCAA GGGTTTGTGT TTAGAGAATC AGAGGGATCT GCATTAGAAC
AGTTTGAAGG TGGCCCCGTG NCTGTTATG CACCTGTNCA GGCATTTCIT TTGAAGAAGC TCCTGTTTTT TCCGAGAAG
TCTTCTINGC GGGATTTTTT AGAGGANGAG CAGAAGGNAC TCCTTTGTCA TACCTTGTGT GATATTTTAG AAAGTGCTT

SEQ ID NO:1446: (Length of Sequence = 243 Nucleotides)

TGCAGGGAAT TTNTGATGC AAAACCAGGA AACAATTTAT CTCCACTGGG AATACITTGA AGAAGGGATT AGAGCGGGGC
TAGGGCAGGG AGGATCINTA AAAACAATA TTTGCCAAAC TAAAAACACA TAGGCACACA TGGGNATTAT TTTACTTTCA
ACAAGTTCTG AAAGTAGTAA CAAAACCAGG GAGAGTTAAA AGAATAATTT AACACTNA'G NTTCAGGAAT GCTAAAGGAG
ACC

SEQ ID NO:1447: (Length of Sequence = 371 Nucleotides)

AGTTATAAT GAACATCTGT TGCCTACITA ATAGGTCATT GAGTAGCTGT GACCCATTCT TAATTGTAT GTAAGCATAT
TTTTTACATA TTTGTATCTA CTTCAATTTT CCTTGAAGCT TGCCAAATIG GTACATTC A GTTTGAAC TG ATGTCCTTA
TATGCTGTAC CACCTTCTTA AAAATTGAAT TATCTTTCTT TCCACCTAGA TTGTTCTCAA AGCATTGTGT TTTGCTGGAC
TTTCCACTCT TGACCATAAG ATGGTAGCAT TCCTAAGGA TATTGCAGCA CAGTCTAATT CCACTGGTTG TCATCTACAG
TTAAATCGCA AATAAAAAAT AATAATAAGC AGCAACTGAT TGCTCAAGTT G

SEQ ID NO:1448: (Length of Sequence = 366 Nucleotides)

AATTTTGTGT CCTGTAGGAA ATGCTTCCTT GGGTGTGT ATTATAGCCC AATCCAAGTC ATCCCTGAGA ACATCCCCAG
GTTGTAAGGA TTAGTCAGAA GTCATGATGA CTGTCTATA TAAATATTTG GCCTATTAAC TAAAATTAGT ACCTTNCAT
TTCTCCNCTT TCTTGGGCGG GGCAGCGGG GAGTGCAGGG GAGGGGAAAT AGGGAACGTN CAATTGTNTT TTAAGTAATG
CTCATAAAAT TCTTAGNCAA AGATGATCTT GCCCTCCACC TTGGTGACCC ACCGCATACG GGTACATCT ATCTGGCCTG
TCTCTAGGCC TAGACAGAAG GAACAGGGAG GGTATGTGT AACCTT

SEQ ID NO:1449: (Length of Sequence = 234 Nucleotides)

GTGTGGGAG GGACCCGGT GGAGGTAAT GAATCATAGG AGCAGTTTC CCCATGCAGC TGTGNGATA GTNAGTTTCT
CATGAGATCT GCTGTTTTA TAAGCTTCTA GTGTTTCCCC TGCTGGCACT CATCTCTCT CTTGCCACCC TGTGAAGAGG
TGCTTCTGC CATGATTGTA AGTTTCCTGA GGCTTNCCTA GCCATGCAA ACTGTGAGTC AATTAAACCT CTTT

SEQ ID NO:1450: (Length of Sequence = 220 Nucleotides)

GCTTTTNTC TCCCTGTTT GTTTGTAACTAAGGAAGC AGAGCCTCTG AGACCACACA CAGCAGGTC GCCCGTCCCC
AGAGGCACCC CGGCCAGGAC GGCAGGAGA GGAGACCCC GTTCTGTCAT GCNCTGTGC CCCGCCACGG TGNCTCCCG
AGGGTGAGGC AGGAGGGTGG GTGGAGGCG CACTGNTCCT CAGCTGGAAG GGCGGGGCAT

SEQ ID NO:1451: (Length of Sequence = 403 Nucleotides)

CCGCTGTCA CCTACGGCTT GATTAACTT GCCTTCTGT CCTCCAAGAC CAGATGATGA TTATTCTCCA CCGTCTAAGA
GACCAAAGGC CAATGAGCTA CCGCAGCCAC CAGTCCCGGA ACCCGCCAAT GCTGGGAAGC GGAAAGTGAG GGAGTTCAAC
TTGAGAAAT GGAATGCTCG CATCACTGAT CTACGTAAAC AAGTTGAAGA ATTGTTTGAA AGGAAATATG CTCAGCCAT
AAAAGCCAAA GGTCCGGTGA CGATCCCGTA CCTCTTTTC TAGTCTCATG TTGAAGATCT TTATGTAGAA GGACTTCTG
AAGGAATTCC TTTTAGAAG CCATCTACTT ACGGAATTCC TCGNCTGGAG AGGATATTAC TTGCAAAGGG AAAGGATTCTG
TTT

SEQ ID NO:1452: (Length of Sequence = 353 Nucleotides)

TGCCTAGAGA GGGGCGGGA TTTAGAGAGC TGTCTTCTG CCTATCTGAT CGCCTCTCA GACACTGATC TATTAGTCTA
GTGCTGCAAT TACTTGGATT GTAATGTTT CTGCAATTT TTGCTTTTCA AATCTTTTC ACCCTAACT GTAAATACGC
CAGGAGTAGG TAAAACTTA CAGGTAAACA TTGCCAAGAN ATAAGGATTT TNATGTCTT TGTCTAGTG CATAACTCAA
ATCACATGAG ATAGATTTCT TTGCATCTGT CCATTGTATT TCTCTGAGGC TAATTTACAG CACTTTGTCA CGTTAGGNAT
TTTTTTTCCC CAGTGTGCT ACTCTCAAC TGG

SEQ ID NO:1453: (Length of Sequence = 258 Nucleotides)

GTGCCCCIN CTGTCTTCT GTNACCCAGA GAAAGCTTCA CAAGCATGCC TGNAAATNAG TTGCACCAIT TTATTACAGC
TGAAAGANTT GANTGTAAAG AAGGAAGTTT AATAGANCAT ATAAATNCAGC AGATTTATTG ATGGGGAGGT ATCTATTGTA
GTTTGGCCAG TGAAGGCAGG TCATAGAGGA AAATTTAGGT AAGTCGGATT TNCITTAATA AGAGGCCCAA GAGTTAGTAC
CTCAGGATTT TGTCTTCT

SEQ ID NO:1454: (Length of Sequence = 328 Nucleotides)

GAGATGGAGT CTGTCTCTG CGCCAGGCT GGGGTGCAGT GGCGCGATCT CTGCTCACTG CAAGCCCCGC CTCCCAGGTT
CAGGCCATTC TCCTGCTCA GCCTCCCGAG TAGCTGGGAC TACAGGCGCC TGGCACCACG NCCAGCTAAT TTTTGTATT

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TTTGGTGGAG ACGGGGTTTC ACCGTGTAG CCAGGATGGT CTGATCTCC CGACCTCATG ACCTGCCCCG CTGGNCTCC
CAAATTGCTG GGATTACAGG CGINACAACC GCGCCCGGCC GGTAGCAATA GTTTTAATTA AGGTCITAAA ATCATACAAA
AAGGAATT

SEQ ID NO:1455: (Length of Sequence = 342 Nucleotides)

AATTAGGTA GATTAGCATT CCCATGTAAC TTACAGAAT CAGAATGAGA ATTCAGAAGT CACCTGANIT GGCCGGGCAT
GGTGGCTCAC ACCTGTAATC CCAGCACCTT GGGAGGCCAA GGCAGGCAGA TCATCTGAGG TCAGGAGTTC GAGACCAGCC
TGGCCAACAT AGTGAAATCC CGCCCTACT AAAAATACAA AAAATTAGCC AGGCACCCTG TCCACAGCCC CCACACAGAC
TCGAGGGGCC CCCATCTCCT GTCTGAACC CAACAGGGTG GTCCCACTNT GGGACCACAA ACCAGGTATG ACTGTTTINAG
AAGCAGGCTC ACTACCAGGN TA

SEQ ID NO:1456: (Length of Sequence = 296 Nucleotides)

ATCTTTGACC TATTAGGTGA ACAAATGAAC CTCACAGGAC ACACAGTATT TTTAAAGGC AGACTCGCTC TCTTTTTTGC
CAGTNAGCAG TTCTAGCTAA CCAAGTTACA CACTGIGGGT ATTCTGCCT GCCTCTTGAA TACAAAGGCC TAGITCAAGT
GTTGCTTTTT TNATTCAAA TCAATTTTT CTCTTTCTT TTTGAGATA AACTATTAA AAGTACTACT ATATATATAA
AANCTCAAAT CAACTTTTG GCCTCTCTCT CGTGATACCAG GGAGTATATT CTGACG

SEQ ID NO:1457: (Length of Sequence = 314 Nucleotides)

GAGGATTCAT AAGTAGAATT TATAAGAAC TCCAAAGAAT CAATAACAAA AAGACTGGCT ATGGCCTTCG NAGAGCAGCT
GCTGTCTCG AAATCAGAGG ACAGTGAAGG GAAGTCCGAA GATGAGCCTG ACACCAATCC GACATCCGTC CTCCTGCAGG
TGGTGGAGCT GCTAGGAAAC TTCTINTGGA CCACGGACAT GGCAGCCTGC NTGAAGGAGC TTGTTTTCCA TCTCCTGGCA
GAGCTCCTAC GCACGGTGCA CACCCTGGAG CAGAGGGGGC ACCCGCTCG CCTGINCTCC TCANTCGCCC TCCA

SEQ ID NO:1458: (Length of Sequence = 254 Nucleotides)

GTTCCAGTCA CAGATGTTTC ATTATCACTA TTCAATATTA TTAAGCATCT AATAAGTATA AGGATGCATG AGTCAAGGT
CCCTACCTTC AGGTGGAAG CAGGAAAGAG ACCAGATCCT AGAACAATAG GACATGGTAC CCGCTGCCTA GACGGAATTT
AGAATCCGGC TGGGTGAAG AGATTATGA GCGAGTCATG CCATCAATGT GCTGTAACCTG AGGTCTTAAA AACCACCCAG
CCCGGACACA AACT

SEQ ID NO:1459: (Length of Sequence = 343 Nucleotides)

AGAAAGGCTC AGGGATTAAG TAAAAAGGCT AGTACATCTG GGCTCCATTC CATTAITTAG TCATCCAAAA GAAGTGAAGT
GGAGGATAGT GAGCATCTAG TATATGCCAG GCACTAGACT GGCTGCAGAG GATTCAGAGA TACAAAAAC AACTTGTGA
CCAATTTAAT TTGAATTTAC CAAGTTGAAT GGCAAAAATA TCTTAAAAAT TTAGATGCCT TGATAAATGT AGTGGTATAT
TATGATAGCC ATTCTATGCC TTGAGATACC GTGTATTTCTA TATTGTATAG TTGAGGGATT GAGGCCAGTT GGGAGGAATA
AATTATAGCT TGTGCTTATC AGG

SEQ ID NO:1460: (Length of Sequence = 348 Nucleotides)

ATTGTCAACA GGTTTTTTAT TTATACCTAC AAAAAGAAAA CAAGATGATG GTATCAAAAG GACAATTTAC AACTAAGAA
TAGTAACATA GCTTTCAGCA TCCTGTGCCT GANCATCACA CATCTACAAG TCTTTCAAGT CTTAATGCAA CAGGAATGTN
TCTGGAGACC NGCAAGAACA TCAATAGAGA GCACTGATCC CAAGCAAAAG CCACTAACCT TTTAGATGAG AAGTCNCAC
AACGNATGT TAGGGAGGAT TTGGGAGAAG CAGCCCTTT GCTTAATACA TINGGACCCC TTCCCTTAA GTTGAGGTTT
AACCCTTGAA TGCAATAACT TGGCATAA

SEQ ID NO:1461: (Length of Sequence = 343 Nucleotides)

TGGGAAGATC AGGTCTTACT TGTTTTCTG TCCCTCCAG CGCTAGATCA ACACAGTGT AAATTAGTTG AATTTCACTG
GAGGAGATAA GACAGAAATG AAATCTGTGA AGATTCAGAC TTTCCTAAGT TAAAACCACT CTGTAGTTAC AGATCAAGAT
GATGCCAGAA ATAACATCAC ACTGAAACAT CAGTCAAATG TAGTCATCAT GGCAAAGGCC AAATGTCCCT TTCTTTTTTT
GCCTCCGCTT GCCTGGGAAT TTAGCATCCC CTAAAGCCAC TCATCTGGGA CAGGATTTTA GGGTGTGTAC ATGTTTTTCA
ATCTCCACAG GACCCAGCTG TGT

SEQ ID NO:1462: (Length of Sequence = 335 Nucleotides)

GGCATGGAGC AGGCAATGAC TTGTTCATAG TCCTGTCAGT TATGAGCACC AGCTTGAACCT TAGGAACCTT TATAAATTTT
TGTTTTCAAC CAAGTATTGA GTGTCTGCTA TGTGTCAGAC ACTGCGCTAG GTGTGAAAT CTCACTTCTA CTGAGGAAGA
CAGGAACATA AATGGTGATG ATCATTGCAT TAGAAGTGAT GCCACGGGAA TAGTGTGGGG CCTCTCCAGG GGGATCTNAA
GGTAGGGAGA CCACACTTCT CCAGTGGTGG AGAGGGCAGA CAGCGTGTAT NGGGTCTTCA AGGTCTNATT GCAAAGGTCA
TGTTTTAGCT GTTCA

SEQ ID NO:1463: (Length of Sequence = 382 Nucleotides)

GGACCGCTTT CGGTCTCTCA GGATAAACAC GAGCATGCCC ACCACGGTGA AGGCGGAGGT GACAAACACC AGCAGCAGTC
CCGGGACCAA CACCGAGATG GACACCTGCT TGGTGTCTAG GTAGGAGTTG GAGTGGCTCC CGGTCTCCGC CAACCCAGTG
CTGTTTTTAC TGTGCGAAGT TAACGTGGGC GAGATCCTAG CGTACAGCTG AGGGCAGATC TCGTCATTGG AGAGGAGCAT
GAAATCCTTT CTAAAGAAGT TCACCGGCGT CTCACACTTN AGGTGCTCTA TCAGCACTTC GGAACCCAG CMTTCTGNCC
ACTTGCTTGA AAGGCACAAT TGTCAGGAG CACTNCCAGG GGTTCCGTG GAGGGTCTAT CT

SEQ ID NO:1464: (Length of Sequence = 187 Nucleotides)

AANGACCTCA TTTCAAAGAA GAGCCGTCTC CTGACAAGGG ACGTTTCCCA GAGAGGAGAC GTGTTAGTGC AACAAAGACC
AGGCCCTGGN AGCCACGAAA GCCCTCCAGA TGCTTGGAG ACGCCGTCTN TAGCCGNGTG GGCCACGNC GGGTGGGGAC
AGACAATGAC AAGAGGCAAG ACAGCCG

SEQ ID NO:1465: (Length of Sequence = 276 Nucleotides)

TTTACACAAT CAGTATAATA CTGATAGGAA AACITGACTG AGTTCAGAAA ANGAAAACGA AGTAGAGATC TCACTTGCAT
CAGAACAAAA TGTCAATCTA TTAGCAGATA ATATTATCA GTATTTTTTG AAAATACAAT ACCACANGAA AGAAACAGTG
GACATTTGGA GGGCTTTGAG GCCTGTGGTG GAAAAGGAAT TATCTNCCC TAAANCTAG ATAGAAGCAT TCTCAGANAC
TTGTTTGINA TGTGTGCCCT CTACTGACAG AGTTGA

SEQ ID NO:1466: (Length of Sequence = 375 Nucleotides)

GGGGTTTINAC CATGTINCCC AGGCTGGGCT CAAGTGATCC ACCCTCCTTG GCTTCTCAA GTGCTGGGAC TACAGGTGTG
AGCCACTGTG CCTGGCTGGT TTTTNTTTTT TNAATGAACA TGTGCAAAT CACGCAGAGC ACCTNINATT CTGCATTNCC
TGGGTTATAA CAAACATTGT CATCTCTGCC TACATTTAAA AGGCTCTGGT GTTATTTTAA TATGCTTTT CAATTTAGTA
ATTAAATCTA ATTTTCTTT GAGCTGAGAT GTTATTCATT GTTCTCTAG AGTTGCTTTT ATTTGTTTAT ATATGTTTCC
CTTAGCATGT TTTTCTGATC TCTTAGTTAT TAGATACCTG AACATTTGAC ATTGG

SEQ ID NO:1467: (Length of Sequence = 319 Nucleotides)

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TGATAAAAGG AAAACGTTTT GATTATAGT ACCAAGTGCT TAAACACAAG GATAGTGTTA GATTTTCGAG TGACTTTCTT
 TTTTGCATTT TTTGGCAGTA AAAGCCAAAC GTTGTATTTG TCCTTTTCAG AGTTGTCCAG CCTTTTTTTC CTTTGTCCAA
 AATGATTCTA AATAGAATCT AATAAACCAA TGTAGCATTA TTTTTTCTA AATGAAGCCC CAAAAAGAA AAGTGCCTTG
 CATCATTTAA AAAAAATAAT TAAATCCTCA TGGCCTCTAA ATTAGGTATG TAGGGCACTG AAAAGTCTT AACATTTTT

SEQ ID NO:1468: (Length of Sequence = 352 Nucleotides)

TTTGGTTAAC ATTCCAAACA TGTATAACCA ATTAACATGG CCTAGGGTTT TCTTTTTATT GGTATTCAC TCACTAACTT
 GAATCCACAG ATATAAGCAG TATATAACCA GAAAGTTACA AGTAAACACA AATTATACAT GCAAATTTCT GTTCACAAAG
 GTCACATGTG CAGGTACATG ANTTAGAAGC GTGCATCTAG GATTATGGCC AACTGTTTT AAAAATGCAG AATGTAAAA
 TTACATCTTG AAAATATGAA GAGATGGTCT ACACACTTCA AAAATCAAT GTTGCTTATA CCAGAGATGT ATGTCAATCA
 CGGNTTCAA GTGACAAGCA GTAAGGATCC TC

SEQ ID NO:1469: (Length of Sequence = 427 Nucleotides)

GAGATGGAGT CTGTCTCTGT NACCCAGGCT AGAGTGCACT GGCAGATCT CGGCTTACTG CAACCTCCGC CTCCTGGGTT
 CRAAGTATTC CCTGCTCA GCTCCCAAG TAGCTGGGAT TACAGGCGCC TGNACCGCA CCCAGCTAAT TTTGTATTT
 TNAGTAGAGA CGGGGCTTTA TCATCTTGGC CAGGCTGGCC TCCAATCCT GACCATGTGA TTCACCTGCC TCCACCTCCC
 AAAGTGCTGG AATTACAGGT GTGAGTCACC ACACCGGCC GGATTCTGTT AGTTTTCTTT AATGCATATT GAGTTTCTTT
 AGTTTTAACA ACCTTAT CTTGTTTGA CCCAACTAT TCACTATGTT TCTTGGGGGA NAGCTINGAA TCTTGGGGTG
 GNAGCCAATT TGTAAATAGC CAGGGTG

SEQ ID NO:1470: (Length of Sequence = 426 Nucleotides)

AGGAGTTTGA GACCATCTG GGCACANAG GAAACCCCG TCTCTACAAA AAGAAAATTT GGTTTTATA TTTATTTGTA
 TTAATTTTT TAGAAACATA GCTGGGCATG GTGGCACAG CCTGTAGTCC TAGCTACTCA GGGGGCTGAG GTGGGAGGAT
 TGCTTGAGCC CAGGAAGTTG AGGCTGCATT AAGTGTGAT CACACCACTG TNCTGCAGCC TGGGTGACAG AGTGAGACCC
 TGCGACTCCA GACAGGTGCA CACCACCACA CTCAGCTAAT TTTTGTAGA AATGAGGTCT CACTATGTTG CCCAGGTTGG
 TCTTGAATC CGGGCTCAA GTGATCCACC TGCTCAGCC TCTCAAAGTG CTGGGATTAC AGGCATGAGT CACAGTGCCT
 GGGCCCAAT TCATAGTCTT AACAT

SEQ ID NO:1471: (Length of Sequence = 372 Nucleotides)

AGAATATTAA AAAAGACCAG ACGCTTAAAG CAAGANTTGA AATACCTAGT TGTAAGATG TGGCACCTGT GGAGAAGACT
 ATTAAGTTGC TTCCAGTAG CCATGTTGCA AGACTACAAA TATTCAGTGT AGAAGGACAA AAGGCAATTC AGATCAAACA
 TCAGGATGAG GTTAATTGGA TAGCGGTGA TATTATGCAT AANCTTATTT TTCAAATGTA TGATGAAGGA GAAAGAGAAA
 TCAATATAAC ATCAGCTTTA GCAGAAAAAA TTAAAGTTAA TTGGACTCCT NAGGTTAACA AAGAACACTT GCTACAGGGT
 CTGCTTCTG ATGTGCAAGT ACCNACATCT GTAAAAGATA TNCCTATTT CC

SEQ ID NO:1472: (Length of Sequence = 332 Nucleotides)

GGTAGAGACA GGGTCTCACC CTGTTGCTCA GGCTGGTCTC AAACCTCTGG GCTCAAGCNA TCCTTTCACC TTGGCCTTCC
 AAAGTNTAG AACTGGCCAG GGGTGGTGGC TCATGCTGT AATCCAGCA CTITNGGAGG CAGAGGCGGG CAGGGAGTTT
 AAGACCAGCC TGGCCAACAC GGTGAACCCA CTCTCCACCA AAANTACAAA ATTTAGCTGG ATGTGGTGGT GGGCGCTCT
 AATCCAGCC ACTCAGGAGG CTGAGGCAGG AGANTCACT GANCCCGGA GCGGAGGTT GCAATGAGCA GAGACGCTT
 GGACGACAGA GT

345

SEQ ID NO:1473: (Length of Sequence = 434 Nucleotides)

GCCTTTAATT TGGTTTINCT ATGCCAGTAC AGAAACATCT GGACAACACT CTTGAGCCTG CAGAGGCTCA CGGCCACACC
CACITCTGCC GCAGGACTGT CTGTTGAGGA GCCGAACOGA TGAGGCACAG TAGCCAGGCC CTCCCGAGGG CTCCAGAAGC
TCTAGGTTTA CGGGTCACC TTCTGTAGG TGACGTGAAG ATGCTGAGTC ATTGGCTGTN TCGTGGTTGC CATGGAGACC
GTCTGCTCAA GTTGGCTTC AGAATTCAGC CTGAACITCC GGGTGATCTG CTCTACGTGG GGCTCCTTGG CGAAGGAGAT
CCTGGCGATG GAGTGGGATG CGATGCACAG NTCTGCCCC TTCAACTCGC CCTCTNCAC TTTCCANCAC GGCTGTTTTT
TTGGCGTGAC AAAAGGCCAC CTTTTGGTG TCGG

SEQ ID NO:1474: (Length of Sequence = 402 Nucleotides)

GACGTINAGG TGGGAGGTTT GTTTGAGCAA CATAGTGAGA CCCCGTCTCT ACACAAAAC AAAAAAATA AAAAATTATC
TGAGCATAGT GGAGCATGGC TATGTTCCAA GCTACGTGGG AGGCTGAGGT GGGAGGATTG CTTGCNTCCA GGAGTTCAAG
GCTGCAGTAA GCAGTAATGG TGCTACTTCG CTTCAGCCTG GCGACAGAG CAAGACCCTG TCTCGAAAAA ATAAATAAAG
TAAATAAAGT TGAGAAITTT GTATTTTGGT ACAGAAGTTC TATGCCCTTN AAATGCTCCA TTTGGACACG CTTAGGGCAG
GACGCTCTGA AACTGGGAAG CCTGGGGCCC TGTACANTCT TGGCTGTCCC CTGTACANTC TCCTAACTCT AGAGGGCTGG
TT

SEQ ID NO:1475: (Length of Sequence = 324 Nucleotides)

TTGCATACCT GTGCTGTGTC AGACCAGGCA GAGTCATCTC ATTCCACTGG TCTAATGGAT GGCAATTGAA TTTAATTAAAC
AAAACCTCCT TGACTTAGTT TCATACTGTG CTGAATGTAA TGAATCCTC TCTGCCCCC TTATCTCTCT CTCITTCCT
CTCTCTCAAC TAAAAATGT CCTTAACTAA CATCCACTTT AAGAATATTA AAGGCTATAC ATTATACTTA AAAGATACAA
TACAGTCATC CCCCTTCCA TGACTTAAAT TGTATAACAT AAAATAATTA AAAAGNTACT TTGGATAGTG ATACACAGTA
TAGG

SEQ ID NO:1476: (Length of Sequence = 244 Nucleotides)

GAAAAACCAG AAACCTCAAA TCAGAGTGCC TCTCTCTC CAAAGGAACA CAGCTCCTCA CCAGCAACGG NACAAAGCTG
GACAGAGAAT GACTTTGACA AATTGAGAGA GGAAGGCTTC AGAAGATCAA ACTACTCTGA GCTAAAGGAG GAAGTTGGA
CCNATGGCAA AGAAGTTAAA AACTTTGAAA AAAAATNGA CGGATNGATA ACTAGNATAA CCGATGCAGA GAAGTCCTTA
AAGG

SEQ ID NO:1477: (Length of Sequence = 338 Nucleotides)

ACAACACATA CTGAAACTG ATTATGACTG TTTTGAATG CATTTTGATT CCTTAGCTAT GCCTCTCAGG TGAAAGGACC
AATGGCAAGA GGAAGCAGAG GATTATGCA CTAGAAAATA CTGAGAGAGA TCAGAGTATT CTGTCTACTT CACTGAAGAT
ATGGTCTATT GAGGGAAAAC TAATTAACAG TTGATCCAAG GAACAAAAGA ATGCTGTTAT GTGACATTTT GTTGGGAAAC
TGACTGTAAT AATAATAAAN CAAATGTCCA GAGGAATGTG TCACATAATT NCAGTGTTTA TGGTTGATAA TTCAAAGGCA
TAGATGAATT GGGATTCT

SEQ ID NO:1478: (Length of Sequence = 397 Nucleotides)

ACCCCTTCCC ATTCTGATAA TCTGGCCATG ACTAGCAGAA GCACAGCTAG GCCCAATGGG CAACCCAGG CCAGCAAAAT
TTGCCAGTTC AAATGGTCC TGCTGGGAGA ATCTGCAGTG GGAAAGTCAA GCCTGGTATT ACGTTTTGTC AAAGGGCAGT
TCCATGAGTA CCAGGAGAGC ACCATGGAG CGGCCTTCCT CACCCAGTCC GTTTGINTAG ATGACACAAC AGTGAAGTTT
GAGATCTGGG ACACAGCTGG GCAGGAGCGA TATCACAGCT TAGCCCCCAT GGTACTACAG GGGTGCCCAA GTNCAATCG

TGGGTTTACG ACATTACTAA TCAGGGAAAC CTTTGGCCG AGCAAAGACA TGGGGTGAAG GGACTACAGC GACAGGC

SEQ ID NO:1479: (Length of Sequence = 389 Nucleotides)

GCTAGAGNGC CGGCTTGCGG GGTGAGTGG CCCGAGCTAA GGGTGCGGAG ACCCAAGGGC GGCGACTACG ACGGCGTTGA
TATCGGTGGT AACGACGGCC TCAGCAGGCG GGAAGATGA AAGGCCGNT CGAGCTGGGA GATGTGACAC CACACAATAT
TAANCAGTTG AAAAGATTGA NTCAGGTCAT CTTCCAGTC AGCTACAATG ACAAGTCTA CAAGGATGTA CTGGAGGTTG
GCGAGCTAGC AAAACTTGCC TATTTCAATG ATATTNCTGT AGGTGCAGTA TGCTGTAGG TGGATCAATC ACAGAATCAG
AAGAGACTTT ACATCATGGA CACTAGGGAT GTNTGGGCAC CTTACCGAAG CTAGGAATAG GGACTAAAT

SEQ ID NO:1480: (Length of Sequence = 384 Nucleotides)

CTGAGAGCCA GGAGCTCTTG CGGAGAAGCC ACTGTCTGCA CGCCACCTGC TTCGATGACC CTGCTCTGCC ATCCCTGTGC
TCCAAGGGCC' GGGCCCTGCC GTTCCTGTG CCAGACGGGT CTCAGGGAGA TGCCGGCCAG CAGGTATGCA TGGCGAGGCC
TGGGCATCAA GGCCCGGATT CTATGGCTGC CAGTTTCATT CTCTGTTGT TGTCCCCCT AGCAAGACTT ATGAGGTTCC
TTGAGGACAA GACTCCCTCC TGCCACCTGG TCTGTTTCCT GAACATTCAC TGCACTAGCA CGNCCCGGG ACGCAGNCTT
TGGGAATCAG GCCGTCGGCC ATGGTAGAGC GGCTNGCACT GCTCGGCACC GTGACGGACG TTTG

SEQ ID NO:1481: (Length of Sequence = 257 Nucleotides)

ATGCTAGAG CTATCTGTGT TTCCAAGCC ATTGGCTAG TAGGCCCTAA TTGGTCAGTG GGTCTGACC CCCAATCCC
TACCTCAGCA GCAGGAAAGG GAAGTCTGG TCTCCACCTG TNCCTACTAA GGCCCGTGG TATCTGGCA GAAGCCTCTG
CATGTATCTN CGCTCTGAGG ATGGGGTGT NAAAAAATAA TAAGACCTA CGTCTACTA CCTTGAGCTT GGCTCTAAAA
CCACGGGAAA GGAAGAG

SEQ ID NO:1482: (Length of Sequence = 345 Nucleotides)

AATTGAGCTC AGACTAAAGG AATTCTTTT TGAATAATA GTGATTAAGT TATGATATTC CTGTTGGCCT AAGAACAATG
CCTATGATTT AGTTGTGTTA TGTATATTG TACTTATAAC CAAACAATCG ATTGGGTACA AGTAGCCTTA GGGCAATACT
TCCTTAAAAA CATGTTCTG ATAACTAAA GCCTTAGCAT TAACCAGAAG TCATAATTA ATAGTATTGT AAAAATACCT
CATTATTTTT AAATCCTGTG TTGGGGTAGA GGATTACAGT TGTCATTTCA AATACATGAA TCTCTGTCA AAAGNGGTAC
TTTGACAGTT TCATGGGAGG TCAGG

SEQ ID NO:1483: (Length of Sequence = 344 Nucleotides)

CTGATGTACT GTTTTAATAT GCTGAGTACT GTTGATTCAA CAACAACTT TAATGGGTGA TGAGCTTTTG CATACCAATA
TGAATTNTC AGCACTTCTG AAAACTGGCC ATCATTNTNC AAATTCACAA TTTGCTGGAT GTCAGGGAAC AATAGGAAGA
AGAATGAGCG TCAATTTTCA TGTCTCCCTT TGCTTCTTCA CTGGCCCTCC ATAGAAGTAG TCAGAAAAAA ACAAGCACC
ATCAACCACA CTTACAAAC AATTCATGTT GGCCTAAGCT TTGCTCAACA TTCATATGAC AGAAGGTAGN ATAATGAAAA
GGGACTGCTG GGCATCACTT TCCC

SEQ ID NO:1484: (Length of Sequence = 380 Nucleotides)

TTCTTAAAAG CAGTCTTTCC TACAACTTGT ATGCAGTAAG TCACTTAAGC ACTTAAGTGT CATATGGGTA CTTACATGGA
ATTAGAGCAC TTCCTGAATG GAATTAGAAA AAGGCAAAAT GTGCATACTA CTGATGCATT CATTTCCTAC AGAGATATGA
TACCAAGGGC CAATAAGTGA ATAGAAAAAG GGAGGAGGAT TTATTAATGG AATGAGTTCT AACCTGTCT CTTACCAGCC
ATATGACTTT GGGNTAAATA ATCAAACGCC CAATGAGCTC AACTGTCTAT TATTAGGGGA ATTTAAATGA GAGAATGCAC
ATTAATTATG CATTGCAGAG TACATGGGAA AATAGTAAAA GCTTAATATT TAATACGGTC

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SEQ ID NO:1485: (Length of Sequence = 334 Nucleotides)

GAAGGAGCGG GGAACCAATT TCTCACTCTC CTCCCACTTG CTATGTGTCAG AAGAGCGAGA TTTCAGGGCA GCAGAGAGCA
TCAGGAGATC AAAAGAAGAC ACTGCTGGGT GGTCCCTTAG CAAGTITTAG CTCTTTTNC TGTGGGAGA GTATTCTTGT
GGCACAGTGC CAAGTGTCTC TAAGAACTA GTCATGCCCTG ANCTTAAGGG CTGCGGGATT CTGGGTGGTG GATTTCCTTA
GGCTTGTCTG AGCCTGCCAG TGCTCTCCTC TGTCGCTCTG ATTTCCAATC ACGCTGAGCA GTCTGCACTN CCTTGGACAG
ACCCACTGGC ATTT

SEQ ID NO:1486: (Length of Sequence = 164 Nucleotides)

CTGAAACGGA AAGATGGCGC TGCTGTNCTT CTAAGCCTAG GCTTCTTGCA CTAAAGCACC AAGGGCATCG CACACAGGCT
TGGCAGAGGG GCCATGGCCA GANTCACCAC CTTGAGACAA GTATGTTGGA GGTCTCGAAT CCTTGGCAC CCCCAAGCAT
GCAG

SEQ ID NO:1487: (Length of Sequence = 298 Nucleotides)

TTGAACCCAG GGGGCAGAGA TTGCAGTGAG CCGAGATCGT NCTGCTGTAC TCCAGCCTGG GCAACAGAGC GAGACTCCAT
TTCAAAAACG AGAACCCAGA GGGCTCACTT GCCCCCTCCA CCACACAGTG AGAAGGCACC ATCTATGAGC CAGGAAGCGG
GCCCTCACCT AACAGGATCT NCTGGGCCTT GACCCAGGNC TTTACAACCT CTAGANCCAT GAAAAATTTC TGTGTTCCT
AGCAGNCCAA ACAGAATTAG AACCAATTAAT TTCTATTTCT CCTTAGCTT AACACTGG

SEQ ID NO:1488: (Length of Sequence = 343 Nucleotides)

TTGCTAGTTC AGGNTCAATG TCATGGCTGT AACTAATATA GTACATTCGG CAGTTGCAAC GCGAAATGAT CCGCTGGACT
TGCTGGGCTT GCTGTGCTC ANCTGGCTGG TTCCAATCTG TGGTGTGGT AACCATGCCG CCCACTGCCT GCCCACTCTC
CATCAGCTCC TGCACAGAGT CCAGACTACG CTGCCGGTGC TCGCTCTTTT GCCCAGGTG AAGTGCAGTG GCGCAATCTC
AGCTCACTGC AACCTCCGCC TNCGGGTTT AAGCAATTNT CCCCACCTCA GCCTTNCAG TAGCTGGGAT GACAGGGGGC
CGCCACAACG GCCCACTAAT TTT

SEQ ID NO:1489: (Length of Sequence = 412 Nucleotides)

ATTACCTTTT TATAACCCAA GANTGCCATT ATTACACCCG GAACCTCAC CAAATAAGTA GGAAACTAC ACTGAGAACA
ATTGCGCCCA GCTGTCTCTG GOCATTTCC CTTTCTACCG CCTCTGTGC ATTCCAGCAA TCTAACTCGA TGAATGATCT
TCCAGTTGGA AAGATGGGGA CTTCACAATG TGCAGACCCA AAGATCTGTC TTCCAAAGGC CAATCACCAC TGTATCCTTC
GTTCCCTTAA ATGTCGTGT TATTTTGAAT ATATTAAGGA ATAATATCAA GGGTAATTAT CTATGTATAA AATGTATGNT
TAATTTTTTA GGGGACCATC ATACTGTTTT TCCACAGTGG CTGTACATTT TACAATTCCC ACCAACAATG CACAGGGTTC
CATGGTTCCT AT

SEQ ID NO:1490: (Length of Sequence = 356 Nucleotides)

ATACCTTCTT TCATTTAAGC CACCCAGTCT ATGGTACTTC GTTATGGCAG CCTTAGCAAA CTAATACGGA TTCCTCATCA
GGTTCAGATT TTNCTAAATA AAATGTGTTT GTGAGGGTGG TACAAGCAAC AGTGATATAT TTCTTTAAGT ATTTTCCCCC
AGCCAAATTC CAACAAGACA ATAATGTCTA ATGCACTGTC TGGTGAATCG GAAAATCTCC TGAATGAAAT AAGAGCCTCT
AATACCCAAA AGGGAATGAA GTGAGTCATC ACCACAGCCT GTGAATGAAA ATAAGTCTC TGAGGAAAAC ACATGTAAAA
AATGACACCA TGTGGATTAA ATGGGGGAC ACAAGT

SEQ ID NO:1491: (Length of Sequence = 335 Nucleotides)

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TTCACCTACCA AAACCAAGTTA CAACAGTTCC AGCCAAATAA CACAGGCTAC CCCATATGCC ACGACACAGA TCTTGCAATTC
 CAACAGCATA CATGANITGG CTGTGGTCT CTCTGATCCN CAATGGAAAA GCTCAATTCA GCAAAAAACA GATCTGNTGG
 GATTITGGTTA TTCTCTACCT GATCAGAACA AAGGTAACAN TGCCITACTT TACATTCTCG ACTACCGNIT GGCTGAGGGA
 TTGINTAATA GAATGCCACA NAACCACTCT NAGGATTTTA GCANCCACCA GCTCTNACAA CAGCTCAGGA AGGAGTTGGC
 AGINTCTCAG GTGGG

SEQ ID NO:1492: (Length of Sequence = 321 Nucleotides)

GACTTCATAA AACATCCTTT ACTATATTTT NAAAGAAAGC AGAAGTAACA GCAATATATG TAAAAGTAAT GNITTAATGN
 CTATAAGCAA GNCAAAGCAA TAGAATTGTG CTTCTTTTGC AGACTGGGNN CAATGAAATG TTTAGCTACA ATTTNCCCAT
 ACAAACATGA AACAATATTC ATATAGNNTA ANCACCTCA CAAATAACTG ATGGGTGATG ANCACACACC AAGTTCGACC
 AAAGCAAAAA NTAAACTGAA AATTGTTGGG TGGGGTTATT CATATTTTAA ATTCAACATG CTTGCTCTAT TTAAAAATAC
 C

SEQ ID NO:1493: (Length of Sequence = 315 Nucleotides)

GACGGAGCGA GGGGACAGAG CCCAGGGATG GAGGCGGGAT GCGGGGACAA GAGCCAGGG ATGGAGGGGG GATGCGGGGG
 AGCAGCTGGT AATGTGCAGA GACTGGGAGA GGGCGGTGTC CAGGTGGAGA GTATTTCAAG GAAGAGAAGG ATTAACAGCG
 TCCACTGCCG CAGATGGGCC AANCAGAGAT GGGACTGGAA ACCAACCCT GCAITTAGCA TCCTGGGGNC TGCTNATAAC
 CTTGGTTTGA TGGCTCCTCA AGAAGAGCCA NAACCCCTTA AAGTTAGTTC AAGAGAGAAG GGGNGAAGAG ACACT

SEQ ID NO:1494: (Length of Sequence = 405 Nucleotides)

AAAAGTTGAC AAAACATAAA GTATCTCTAG ACAGCAAGGA AATAATTTCA CGAGATTGCT AAATTGATGT CAACACCTGC
 AGTCTAAAAT TTATACAGTT CAATATGTGT CATTTGATCA CTGGCATGTC AAATATAGAA CAGCTATGAC TTGCTGGCC
 AGTAAATTAT CTAGCAGTGA AAATCACTTT TTAGGAGAGT CGCAATCAAA CATTTGTTAA CGTGGGAGCC TATAAGATG
 CAAATCTCTG AACACAGTG TCTAAGAAAA GTACATTGGG TCACTCTGAA CAGGTGGTAT GAACATTTGA TTAACTGCA
 AGATCTNCG CTNITTACGG GCTTTGTAC CATCGNATGA ATCTTACATC CGCTGATGAC TNAGAGCAAG CAGGGGCGAG
 CTGCC

SEQ ID NO:1495: (Length of Sequence = 364 Nucleotides)

CGTCTAATGA AGAGCTTCGA AACTTGCTTT TGCTGGGCA TGTGGGATTT GACAGCCTCC CTGACCAGCT GTCAACAAG
 TCTACTTCTC AAGGATTCG TTCAACATC CTTTGTGTG GTGAGACAGG CATTGGCAAA TCCACGTTAA TGGACATTT
 GTTCAACACC AAATTTGAAA GTGACCCAGC TACTCACAAT GAACCAGGTG TTGGTTTAAA AGCCAGAAGT TATGAGCTTC
 AGGAAAGCAA TGTACGGCTG AAGTTAACCA TTGTTGACAC CGTGGGATTT GGAGACCAGN TAAATAAAGA TGACAGCTAT
 AAGCCGNTAG TAGNTATAT TGATGCCAG TTGAGGNT ACCT

SEQ ID NO:1496: (Length of Sequence = 370 Nucleotides)

GTCTCTTGA GCAAGGACCC AGTTATTCAT CTTAATTTCT AGGGGAATCT CTGTAGAGAT GAAAAGCAGG AGAACCAAGG
 CAGCCTGGTC TCCTTGGGTG ATGAAAAACA GACTAAGAGC AGGGACTTGC CTCCAGCTGA GGAGCTTCCA GAAAAGGAGC
 ATGGAAGAT ATCGTGCCAC CTGAGAGAAG ACATTGCCA GATTCTTACA TGTCAGAAAG CTGGTGAACA GGAGGGCAGG
 CTACAAAGAA AGCAGAAAAA TNCACAGGA GGGAGGGGCG ACATCTNCCA TGAATNTGGA AAGAGTTTIN CTCAAAGCTC
 AGGCCTTAGT AAACACAGGA GNATNCACAC TGGTGAGAAA CCTACGGAT

SEQ ID NO:1497: (Length of Sequence = 376 Nucleotides)

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CACACACATA CAAAATCTGT CCATTGCGG GAGNAATNIG TATGTATGTA AGTTGGAGGG TATTAAAAAT CAGTTTTATT
 CCAAAGATTT AAAACTAGAC ATGACTTAAA AACAAATTCT GGAGCACTGC TTGCTGACAA TCTCGTAGTT CTCGCTGCA
 TTGAGTGCA TTTTGIGGCC AGTCCATCAG GCGGTACCAT GGGATTATAT TTGAATGTGT GGTGCATCCT TCGTGGATGA
 AGGATGTGTG AGGGACCTTG AACCTCAGCT GTATTAACT GTAGCGCTC CAGTCAGTGC ACTAGATGAA ACTTTTAGAC
 ANCTGAATT CTGTTGGGTC CMTCTTTTT CCTTTATGTA GGCAGNCINC AGCATG

SEQ ID NO:1498: (Length of Sequence = 281 Nucleotides)

TTTATAGGAC TTCTAATCTA ATTTNCCTAT AGTGTGACTA AAAGGGAGGC AAATTATTGG AACGGATTAT TCAAATGGNT
 CCTTAATAT TGCTATGTAT AATAAGCCAG TTATTATATC AGGACCATGT TCTCTGTAGG CCAGTGTTT NCTCTCAT
 TCTCCAGTGG CGGCGCGGG GAAGGCGGAG GCAGAGGAG CAGCAGCCGC GCTGGCTGCA AATGAATGAN CCCCCAGCTT
 GGGGGGAGGA CTCCAGGTGA GCCTCTGCCC TCGGGAGGCC C

SEQ ID NO:1499: (Length of Sequence = 395 Nucleotides)

TTTATCACA CCTGTGTTT CAAGGGTCCT GTTACGTACC ATTCACCATT CTGCTTAGCA ATGGCTGTG AGATGGCATT
 TATTCCTCA GCATGTATTT TNATGTTTAC CTTCCTCTCA CCTAAATTC TCCCCACCC CAATAACAAT TAGTGTCTT
 ATTTGCATGT AGCCAGAGCA AAAAATGATT TCTTTCCCTT AAGTTACTAT TATTATAAAA GGGACGATAA ACACATGAGT
 CATTATACCA CAAGTATAGT GTGGAAAGGA CTCTAAACAT AGGCTCACTG AAGAAGGTGG CATTTGGGCC AGGGCTCAAA
 ATAAGGCAGA TTCAGATTTG AACTGAATAG ATGGAGGAGT CATTTCAAAC AGAAGGAATG NCATAACATG TGGAG

SEQ ID NO:1500: (Length of Sequence = 272 Nucleotides)

CTGAGTAAGN GTTCCAGTC GGTCCACTG GTCACAAATT TTMGGCACC GATCATTGAC ATTCACAGCG TGTGATAGT
 CCAGTTCAAT GAGCTCTCG GCGATGGCTG CGATCTGCTC CACGCGGTCC TGGTGCCTG CCAGGTGCT CTGAAACGNC
 TGTGCTTCC GCAGCAGAGC CGNACCTCT NINAGGAGC CGACTGTGTA ATCTTNTGTC AGCAAGATCT GCTCTTTGCC
 ATAAGCCCAA GTCTGCTGCG TTGAGGCCTT CT

SEQ ID NO:1501: (Length of Sequence = 394 Nucleotides)

TTTTTTTTCC TGGACCTGTC ACAAGCTTTA TTGTCCCGAG CACAGACTCG CCACACTTCA ACAATTCAC TGTGGGGAGG
 GGAGGGGTGA ATGAAGGACC TGGGGAGGGG ACATGGCTGA GCCACANCG GCGGGCCACA CGGGGCGGGC TGAGAGGCCC
 ACGGAGGCAG AAGCTCCCAA GGAAACCGCT TCTTGACAC CCGTCACCAG GAGCCACCT CCGGGGGCTC AGNTCCTCCC
 GGCACCCCTC TAGATGGACC TCTGGCTGTT AGTAGACTAA TCGGTGCCCC TACCGATGGG GCAGAGCTGC CTGATTTTIG
 CTAGAAAGAG CTGTATTTGA NCCTNGGTTA GGNCACTAAA GCATCGTTCT AGACGGCTGT TAATAGAACT NCAT

SEQ ID NO:1502: (Length of Sequence = 373 Nucleotides)

GAAACAAGGC ATAATGTGT CACAGAATCA GAGATCCAGT CTCACTTTTC CACAAATCTC CAAATCTCCA GTCTTATCTT
 GTGTGCTCTA ATGGTTTGGT TCAATCCCTT TCCAACCTTT GTTTTCAAAG CATGGGGCCT GAGTGTCTC CACTCTCTCT
 AAGAAAGGAG CTTGGGTGGA AGGGACCATG CTGACCTCCT CCATCAGAGG GCTCTTCCAG TAGTATTCTC GGATGCAACC
 TCCATTTCTC AGTTACCATT ATTTCTGTGA TCAGCTTTGT CCTTCTGNN GGGATGCACA GTGATCCGGG CCACCACTGT
 TGTGTCTG TGCTCTGCT CTTTCTATG GTTTCAGNT ATTTCTGGG GTT

SEQ ID NO:1503: (Length of Sequence = 266 Nucleotides)

GNCAACAGGC CAGTNTTAA AGAGGGTCAA GTGGAGGTGC ATATTCCAGA GAATGCTCCC GTAGGTACCT CTGTAATTCA
 GCTCCATGCC ACTGATGCAG ATATAGGCAG TAATGCTGAA ATCCGGTACA TTTTGGTGC CCAGGTGCGC CCGCAACCA

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AAAGACTCTT TGCTTTAAAT AATACTACTG GGCTGATTAC ANITCAGAGG TCCTNNGATA GAGAGGAGAC AGCCATTTCAC
AAAGTGNCAG TGCTGGCTAG TGACGG

SEQ ID NO:1504: (Length of Sequence = 311 Nucleotides)

ACTGGATGGA TGTTTGATCT GTGTTGGTCA TGAAGTTGTT TTTTTTTTTT TTA AAAAGAA AACCATGATC AACAGCTTT
GCCACGAATT TAAGAGTTTT ATCAAGATAT ATCGAATACA GCATGGGATT GGGAAAGTTA ACTAAAGGTA TTTGAGCTTG
CACTGGATCT TGAAAGGTAG AAAAAGGGAG CAGGAGGAAA CTCATCCAGG TAAGAAAAAT AGACTGTNCA AGATGGGCAT
GAGAAACAGT GAGGTCCCNV GCTGGAGGTG GGTGCTAGTC ATGTTGAGCA CTNCTGGCAG GAGAGTTTT T

SEQ ID NO:1505: (Length of Sequence = 363 Nucleotides)

CCACTCATGG CAGAAGGGAA GGGAGCTAG TGTGTGCAGA AATTGTATGG TGAGAGAGAA GAAACAAGAG AGAGGGAAGG
GAGATAGCAG GCTCTTTTCA ACAACCAGCT CTCATGGGAA ATCATAGAGT GAGAACTCAT TCACTACCAT GAGAATGGCA
CTAGGCCATT AATGAGGGAT TCGCCCTAT GACCCAAATA CCTCCCATTA AGCTCTACCT CCAACACTGG AGATCACACA
TCANCATAAA ATTTGGAGGG GTCGAATATC CAAACNTAG CAACTTGGAA CCACCAGAAG CTGGAAGAGG CAAGGAAAGA
TTTTNTCCTA GAGGCTTCAG AATAAGGTAT TGCAATCTG AAA

SEQ ID NO:1506: (Length of Sequence = 177 Nucleotides)

CGGACAGAGC AGGGCAGAAA AATGAGGGAA GGATGACAGA AGCTCATCAG AAAGCCAGTA ATACATAAGA TTAGTTTTNT
CAGCAAAACC TNGTAAACTT TGACGTAAA AGACAAATAT TTTGATCTCT CATTCCTACT CTCAAAAGG TTTCTAGTTC
ATATTGTTTT GCTAAAA

SEQ ID NO:1507: (Length of Sequence = 345 Nucleotides)

CTTGCTTGAT TTTCCCTGT GTGTCAGAGA ATGTGCACAT TGAAGAGAG GGAGCTCTCC ATCACCAGA GAGCCCAAAA
ATAGCCCAAC TGATCATAGC CGTTGTAAAA ATATTCTAGG ATGTAAGGAA AGATCCTTTC CAGTCTGAT GCTCCTTGAC
TTGTGATTG CTAAATTGA GAAGCCATCA CTTACACAAC CTGTTTATA GACAAATCCT TCCAGTTTCA GAAGAAAAAA
TGTCATCTAT CTCACCTCC ATCTCTTTT CAAACTTCGA TAGATGAGAA GAAAATGGTG AAATAAATTT TTTAGAATCA
GTTTTGCAAG ATTGGTTTC AAGGA

SEQ ID NO:1508: (Length of Sequence = 326 Nucleotides)

AGTTGGATTT CAGCTACTCA GAGTAATGG AAAAGGCCAC AGCCTGGTGG GCTTCACAGC TTTCAGAGAC CTGGTAGGGG
ATGGCTAACA GGTCINCTG CCAGGAGACA AGTGGCAGAC CCAGGTGTGA AACTTTTACA GGTCACCA AGCCTTCTT
ATGGAGCACA GAGCATAAGG ACAACTTCTG CAGAAATGGA ATGGGGTACT TGGAAACAAA AATACATACA CCTCCTTCC
CACCTGCCTC CAGCTTAGTA GCCCATAGTC CTCCTTGTCC CTCACACTGA GCCAGGGCCT GNCCTAGATG ATGAAATGCA
TGGCCT

SEQ ID NO:1509: (Length of Sequence = 329 Nucleotides)

AGTATGGGTC CCTTGGTACT ACTCAAGTT TACAATATTG CATTAAACAC ATTGAAAAAT ACACGAGAAC CTGAGGGAT
CACATTTTAC TGCAATATGT GATTTCTGG TGAGACTCCT TGTGCAGAGA TGATTAGCTC ACAGAGCGTT GTAAGCACGT
ACTCGAACA CCTGAGCATG CCGCAATGGC AACAGGAGGT ATCTTCACAA TTATGATGGT AGTACAGTAT GTACTGCACT
TGTTTACACA GTTATGATTT AGTACTACAT CTTACANIT GENTATTINC TTNCIATTTT GAATGGTATG TACTGTCTGT
GTGTACATA

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SEQ ID NO:1510: (Length of Sequence = 247 Nucleotides)

TAGGAAAGAG TAAGANCTTC TTINCAGGCT GGAGGTGCTC GTATGGTGGG ACAGGAAAGG GGAAAAGAGA AAGGGGCAAC
ATGGCAGACA TACCACGGIT CCTACAGAGA TTAGGGGCAG CCCTGGCCCG GGAAGTACAC AGGCGAGAGA GCTGACTCTC
AGGCCAGGAA GGAGTTTAGC TCTNACCCAT CCTCANGGAC CACGGCTCTC CCCCAGCCTC AGCTGACACA CACACAAAGG
AGCGTTT

SEQ ID NO:1511: (Length of Sequence = 369 Nucleotides)

CCACTGCTC CTTTATTAAC TGTNCTTCCT GTAGTGTGTA TTTGGGATCC ACTGGGAATC ATAGAAAGGA ATCAGTGCTA
GNTCTGTG GGATGTCACC CTGAGGGATG TGGCTTTGGC TTCTCTATCA ACCTTTCTGT TCCTTGTGC TATAGGAGTT
AAGTCCCTTT NATGCCCCCT ACAGTGGATT ATAGCTATGG CCTGTGGCAG GTGTATTGTT TACAATAGCT GAAGAATTTC
AGGCCCATGC TTTATGGGGG AGGGTTTINC TAGCTAGTAG TCCCCTTTCT TTCTAGATTG CAGCATAAGC GTGAACCNCC
AAGGAATGCC ATATTTTAGA ATCCTGINAT AGGATGGTTA AGGCTTTTT

SEQ ID NO:1512: (Length of Sequence = 236 Nucleotides)

ATGCATTAG AAAAGACAGC CAAATGACAG ACTGATAAAA TATTTTCATT ACAAATTTGG TTGAGAACTA CGTGTGAGC
TAAATGAAGT TTCTATTACA CATGTACTAA CAGAGACTTT TCATTACATA TTCTAGGATA TATTTAAAT ATATGTATAT
TTTGATATTA AGGGAATATA TTTGTGTGTC ATTTTACAAT GTGTAACACT ATATATATTA NGGCCCTTCC AATAAA

SEQ ID NO:1513: (Length of Sequence = 408 Nucleotides)

CATTAAATATT CTCAGTGTG GAAATATTT NATATTGCCA AGACCATAAT GTGAGGNGTG CAGCTGCATA ANTCCCTGAG
AGAAGATTAG TGGGGCTAGC ACCTTACAAG GAAAGACAAG CTTGTGGCT GGGOCCAAG ACAGTCAAT GTCTGCCTGA
CAATCTCCAC ACAGAAGGT TGCTCAGATC ACTTAGGACA CCCAGAAAGA GCTCACAAG GGCAACAAC CTAAGGCTGN
TATTTCCAT CTAGCGGTAC TTACCTGGGA ACTGAGTGGC AGTGGACAGG AAGCAGGGCC TGGGCTAGGG AGACCCTCAG
GAGGAANGGG GACCCAAGAA GTTAGAAGTC CATTCAATCA TATACTCATT CATTAGCAA ACATGCGCTT GACACCTTCT
GTTATGCT

SEQ ID NO:1514: (Length of Sequence = 359 Nucleotides)

TINNCCAGGC TGGTCTCAA CTCTGGGCT CAAGINATCC GTCCACCTTG GCTTCCCAA GTNCTAGGAT TACAGGCATG
AGCCACTGIN CCTGGCTAGA AAATNINTTT TTAAGAGINA GGATGTAGAA TTNCTAGCT ATGTAGGCAA GGCAGGAGGA
GAGGGGCCCA GTTGGGAAGC ATAGCCACA AGAGTATGAG GGCCTGANCC AGGATGGTGG CAACAGGGAT GGAGAGGAAG
GCGTGCCAGG GCATGGTGGC TCACACCTTA TAATCCTAGC ACTTTGAGAG GCTGAGGGAG GAGGATCATT TTNAGCCCAA
AAGTTAGAGA CCAGCCTGGG GNAACATAGT TAAGGACAC

SEQ ID NO:1515: (Length of Sequence = 343 Nucleotides)

GAGCCCTTG ATGGCAAGAN CTGACCCTTC CATCTGGAG AAGAGGAGAC CAATTINATA TTATGGAGGC AGAATATACA
GGACTGTGTG ACTAATTCGA CATGTGTGTC CATGGAGCTT GAAGGGGACA GAACCACAGG TGCAAAACTG GTGTAGGTAG
TGCTGGCCAT TGCTCAGAAC TTTGTGTGAG TTGAGCCAG GCCTCTGGTT GCAGGACTCG TGAATGGAGC AGTTCTGAGA
ACCACCTTT TGCTAAGGGA GCTINGGAGC CACATGGCTG CTCCCTTCAC ACTGGGTAACT AGTGTAGTAT CCTGTGAGAG
AATAAACGTA TTCATTTAA AAG

SEQ ID NO:1516: (Length of Sequence = 380 Nucleotides)

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TTTTCCTTA TTCTATCGA TTTTTCCTT AAGCTTCTAC CTGGNATTIN CCTTTGGAAA AGTCTCTGAG GTTCCACCAA
 AATATGGAAC TTNATTTTGG ACACTTTGAC GAAAGAGATA AGACATCCAG GAACATGCGA GGCTCCCGGA TGAATGGNTT
 GCCTAGCCCC ACTCAGACGG CCCACTGTAG CTCTACCGA ACCAGAACCT TGCAGGCAC T GAGGTAATGA GAAGAAAGCC
 AAGAAGGTAC GTTCTTACCG CAATGGGAC CGCTACTTCA AGGGGATTGT GTACGCTGTG TCCTCTGACC GTTTTCGACG
 CTTTINACGCC TTGCTGGCTG ANCTGACGNG ATCTCTINTCT GACAACATCA ACCTGCCTCA

SEQ ID NO:1517: (Length of Sequence = 411 Nucleotides)

TGAGCAAAAC ACAGAGGACT GCACCTCTAG TGGCTCGTAA TGAGAAAGAA GATGGTCTCA AACCTGAGAA AGATAATGTG
 GAGTGGACCT CTGTTGTCTC AGTATTAACA GTCCCTTCTA GGAAGTAGGT AGCATTTCTG AAAATAGAGT GAAGCAATTG
 ACTGATGGAT TTAATCTTTA AACTGCTTAG GTAACCATCA ATCTGTAATG AGCTTAATAC TCTTAAGTAG GTGCTATTTT
 NCAATGTGTG TACTTTGCCA GTGATAAAGG ATTACGAAAA ATTCTTTACC AGAGGAAAAA AAAAAATGA ATGACCTTTC
 TTGGGAAGGT GGTCCTTGT TTGTGATCAA ACTTTGACAA GAAGTGGTAA TTAATTTCTT CTAAGGAATT NACCGTCTC
 ATAGTGTGTT T

SEQ ID NO:1518: (Length of Sequence = 388 Nucleotides)

GGTGGGCAGC TTCTCTCTGC AGCTCTCTC CCATCATCTG GCTGAATATG GGGCTTTINAT GGGCCTCAGG GGAGGAAGTG
 TGTGCNAAAT GGTCCGTGGG CAAACATGGG CGGGCCTGGA AAAGGCACCA CAAGTTCCCA CCCAGTCAG TAGGATCAGC
 AGTCTGACAC CCAGGCTTCA GGCCCTCCCC GACTTGAAGG TGGTGTCTCA CCAAGGACTC ACCCACTCCT GCCCAGGAGC
 TTGNTGCGCT CTGCTGCCA TTTATGGTGC CAGGCTGT TGTNCCAAGG AGTGTCTGTG GGCCAGCCT GAGCTGCCCT
 CAGCACCCCC TTGGCCTCTT TTCTGINTC ATTGGTGCC AAAGTCCGCA GCAGGCTGAA GTGGCAGG

SEQ ID NO:1519: (Length of Sequence = 358 Nucleotides)

TTGGTTAAGA CCAAAGTCAG ATCACTCCCT CCTAGCTCCA AACCTGCAGT GGCTCCCAAT TCINTCAGCA TACAAACCCA
 GATCCTCAGG CTGCCATTIN TGGGCTGAAT CTGTCCCTG CTGTCTGATC CCACAGACA TAATGGAGGC CTGAGGTTCC
 CTGAACACTC CTAGTTTAGC CTTAAGTTAA GTATTGAC ATGCTGGTTC CTATGCCTGA GATAATGTT CACATTINAT
 CCCATTGCTT GCCAGAAATA GAAACCTTC CACATAATN CAAACAGAG TTTACANCAC AGAGCTTTGG GTGACTGCAG
 GCCTCAAGA ANGNAGGCA GAAGGGGCAC TGAAGAGT

SEQ ID NO:1520: (Length of Sequence = 379 Nucleotides)

CCAGAGTTAA ATATGCCAG GCTGAAAGAA GGTGTATAAT GTATGGNCGT NCTTATACCA AATGATTTCT TTGGAATTTA
 AACAAATATG TTTAGTATTT TATTCCTAAT TTAGGAAGAA AAAGCACTA AAGTTGINT GACATTGTAC ACAGATGAGT
 AGCAGTAAAC TTTTATTTAG TAAGCCCAT AGGATAGTAN GGNATAAAG TTGTTAGTGA GCAAAACAGG AGTATCCTGC
 CATTGCTTT AATCTINCIT GTGATAGTTT TGAGGGTACA ATAATTCTG TGTGGGTGTC ACTCAAGCAA ACCAGAAAGT
 GTCTTTTGTA AATACGCATT TTGGGCTCA TCCTCATGGA GGTCCCGTT GTTTGTTGG

SEQ ID NO:1521: (Length of Sequence = 339 Nucleotides)

GGGACAGGAA GCCTCTGGG TTGACTCAG ACTCAGGAGG TGACTCAAGC CTCAAGCTCA GAAGCCCTCT GTNACCATCT
 GTTGACTCAG AAGCATGCCC ACCATCCAT GCAGTGCCT TCCAGGCACT GTCTGTAGC AGACGGAGTT CAGGCTTTGG
 AAGTAGACAG ACCTGGGTTT AAATCAGAC TCCGCTTCTT CCGCTGAG CTCCATAACC TAGGATAAAG TCGCTAAGCC
 TNCCTAAGT TCAGATTCT TACCTCTAAG GTGAANGAT TGATTCCAC TTACTTCCC CCCTTTTCCC TTTANGGACT
 CTGCATCCTC NTTGCTTG

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SEQ ID NO:1522: (Length of Sequence = 405 Nucleotides)

GTGAATTTCAGCAATTGTT AATGGGGACC AACAGGGCTG CATTAGAAA ACCACTTTNN ACTGATCTCT CCCCCACATA
TTTTTAATTT GTCTTGCTTT GTTTATTTTG GTTATGCAAG TCCTTTCTCT TCATGAAACA AGTGTAAAGC TCTAAGGCTA
AAATAATAGT TATTTTTTGG GGCCCCAAT AGCTACTTTT GAATTTCTTT CTTTAGTATA TCTCAAATCT GGGGAACATG
GAACITGAAG ACTCCTAACC ATGAAGCATT TGGAAAAATA CATATCATT CTTTTCACA GAACCAITTT CTAAAAATA
AGGGGGCAAT ATCCAGATTC ACATGCATGT TCATAAATA AGCTTTGGTT TAAAAACAA TCCACACCAG CAATTATTTT
CAGCT

SEQ ID NO:1523: (Length of Sequence = 284 Nucleotides)

AGNACACAGA ACTCCAATTC TTTATTAATC ACAGCTTGCT CACAATGACA TACAGGAAAA TAGCACTAAT GAAGNGTAAA
TATGCAGGCA GCAACCTTCA GGAGTTGGGA GTTGGGGAGA AACGCTTCA AACTGCGAT AGGTACTTAT GGTGGGTATC
TGGTGATTCT NAGTTGGCAC AAATGCCCTG CCTAGCCCC TTAAGTGGT CACTTTCACA GATGNGTGT TTGTGTGTG
GTGTGTGTAG TAGGCAGGAT TGCCTTACAC TGGGAAGAA AGAC

SEQ ID NO:1524: (Length of Sequence = 299 Nucleotides)

GTGCTGTAC GTGACAGTTT TGTCTGATCA CATTTTAGGA AGATGATGCT GTTCTTNCIT CTTAAGTATT TATTTTATC
AGTCAAGTGA TAGGAAGTTC AATTTCAAGT ACAAGACATT TGGATCAAGA AGTGACTATT ATTATTTAT TINAGATGGA
GTCTGTCTCT GTTGGCCAG CTGGAGTGCA GTGGTGTGAT CTCAGCTCAC TGCAACTTCC TCCTCTGGG TTCAAGCAAT
TCCTCTGCT CAGACTCCCG AGTAGCTGGA ATTACAGGC ACCCACCAG ACCAGTGAA

SEQ ID NO:1525: (Length of Sequence = 398 Nucleotides)

GCCATGAAG CAGCTCTCGT GGATTGGAGT CTCATGCCCTG CAGCTCTCCC ATACTGGAGT TGCTGCTGG TGGTCTTACA
GTGCTGGTGT CTGGGCAGTG GCCTCACTCC CATGGCTCCA GGAGGCATTG CCCTGGTGAG GGATCTCTGT GGTGGCTCTG
TCCCTGTAC AAGTTTCTGC CTGGGCTTCC AGGCTGTCCA TGATATCCTT TGAAATCTAA TTGGAGGCTG GCATGACCCC
ATGCTTCCA CACTCTGTGC ACCTGCAGAA TCAGCACCAT GTGACACTG CCAAGACCTA CCTACCATT GTGCTCTCTG
GAGCAGCAGC ACAAGCTACA TCTGGGCTG CTGAGCCAT GGCTGGGCT NCCAAGGAGC AGAGTCTGA GGGTGGCC

SEQ ID NO:1526: (Length of Sequence = 318 Nucleotides)

GTCTCTCTCT ACTGCACCAT GATGCCITTA AAAAGAATCT AGGGGCTGG CACAGTGGCT CAGCCTINTA ACCCAGCACT
TTGGGAGGAG TTCATTGAG CTCAGGAGCT CGAGACCAGC CTAGGCAACA TAGTGAGACC CCGTINTCCA CTAAAAATGA
AAGCAAATTA GCTGGGTATG GTGGTCCATG TCTGTACTGT GGCTTAAGCT ACTGGGAAG TTGAAGCAGG AGGNTCACTT
GAGCCAGAA GGTCAAGGCT GTAGTGAGCC ATGATINTGC CACTGCATT CAGCCTGGGC AACACAGTNA GACCTGT

SEQ ID NO:1527: (Length of Sequence = 313 Nucleotides)

TTGGCTAGAA GGGAGGCTGG AGCCTTTCAT GGTGGCTTTT GAATGCCATG GTGAATAGTT TGTCTTTAT TTGTNATTGA
ATAGCAATTT GTACACTTCT GAGCTATAG AGTGAAATGA TTAAGCCTGT GGTTTAGGAA GAAAGAGCCT ATTAGGGAGA
TAAATCTTTC CCTAGTTGTA GGAAGGTTG GAACAGTATG ATATGGAGAG GGTAGTAATG AATGANGGAA TNGAAAACGA
GAATAATTTT AATGATACTG GAGGTGCAST ATACAAGTTG NGCAGTAGGT TTATGTCTAG GAAGATAAGA AGT

SEQ ID NO:1528: (Length of Sequence = 405 Nucleotides)

GCCGTCGCTA CCGCCACCGC CACCGCCACC GCCCGGAGT GCTGTCTCTA TGGCGAGGAG GAGGAGGAG AGCGCGAGTC
AGCGACACAA GTACATAAAT AAAGGATAAA ATATTTTATG AAACAAATCT TCAATCAAGT ATAACATTTT GATGCTTGGC

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ATCTAGACTC CCTTGTGCCC TCACTATGCC AGCGGAAC TGATCATAG CCAAAGAATT TGTGAAGTTT GGGCTTGCAA
 CTTGGATGAA GAGATGAAGA AAATTCGTCA AGTTATCCGA AAATATAATT ACGTIGCTAT GGACACCGAG TTTCCAGGTG
 TGGTTGCAAG ACCCATGGA GAATTCAGGA GCAATNCTGA CTATCAATAC CAACTATTTC GGTGTAATGT AGACTTGTTA
 AAGAT

SEQ ID NO:1529: (Length of Sequence = 241 Nucleotides)

GAAGGAGAAA CACTTCITGC CTCCATAATT CAGACAGTAA ACTGATCGCT GAGATTGAAG TTGCTTGT TTCTGGGGAA
 GCTTNAAGAT CCTCGTGGGA CCACCATCCC CTGCTCAGTC CTCCCTGGAA GGGGGCACTG GCTGGGTATG AGCCGCGTCA
 CCGTTGGGTT TGTAACTTIN TGGATGGTGC CTGNTTTC CCTGGGGCTG GCTGAGGAAA GGGGAGGCGG TAGNGTCTG
 C

SEQ ID NO:1530: (Length of Sequence = 356 Nucleotides)

GGTCTCATGC AAGGGTTTCC CATGCCCTGTA AGTGTGTTTG TAATCCACACA TGTATCAGGT GCCTGGCTGC TCTGGGACTT
 GCAGTAATTG TCTCTGTITT GTTTCAGGTG TGATCCCCTG GGCCCGTTTG TTGTGGGGG AGAAGACTTA GACCCTTTTC
 GGTGAGTACT GCTGGGGAGG TGGCAGCAAC ACAACTTGCT TTNTGGCTT TINAGCCCCA GTCATCTTC TAATTINAGA
 GTTTTCGGTC AGTCTCTTCC TTGNGNGTN GAGGAGGCAG TTGTTTCTG AGCAGCTGAG AAAGCACTGC CACATACGCT
 GGCCCTCCA CACCTAGAGC GGTGCAGGAG AGCACT

SEQ ID NO:1531: (Length of Sequence = 379 Nucleotides)

CCAACAGATG CTGCTACGTT TCCTTCAAAA TTGTTAAACA TCCTTGGCG AGAAGCTGC TTAGTTATAT CCAGCGATTG
 GTTCAAATCC ACGTTGATAC AATGAAGGGT GGGGTATCTA GCAGGATGTC TAGTTCACGC ACTGGGTGAA AAACAACCAG
 AGCTGCAGAT AAGTGAACGA GATGTTCTCT GTGTTTCAGAT TGCTGGACTT TGTCTATGTC TCGGTCTATG GCCATTTTCT
 CACATGTTTG ATGGACGATT TTATCCACT TGCTGGCCG GAGGTGAAAT GGACGCATGA ACAAGGCTCA GTTATGATGT
 TTGAGCACCT TATTTAATTC TAATGGGATT AAGCCTGTCA TGAACAATA TGGGTCTCA

SEQ ID NO:1532: (Length of Sequence = 307 Nucleotides)

GATAAACTTG AGCCACCAAG AAGTGGACTC TGCCTAGGAA GACAGTTTGC TGAAGTTAGA AAGTACTGGT CTAGGAACCA
 GAAAACCTGA TTCTNCCCAA GAGTTAGAAT TGINAGINAG TTCTNCTGG TTTNAGTTT CCTTATCTGT AAAATAATTA
 CCCAGTTCAA TTGATAATC TCTATGATCC CTTCCACATT CTGCATACTT GGATATCTAC TGTTTCTAAA TATTTTGGCA
 TTTCTTATAA AGCCCTTTCA CATTNCTTT ATTATTTTTC CTCACAAGA ATTCTGAAA TAGGATA

SEQ ID NO:1533: (Length of Sequence = 337 Nucleotides)

ATGGCTTTAT TTGCTGATTG AGAAGTGGTC CAGCCGTGGG CTAGCAGTCA TTTACATATC AGTGACCAAA TGCAACATA
 CCGTACTAA CAGTGCTTTG GTCCATGACA TACCTTTTTC ACAGCCCAA GCTGAAACGT CAACTCTATC TGGGGTTACT
 TGCTTATACA AAGATGTTAC TCTAGCAATT GTTGCTTGAG GGCAAGACCN GATGATTGTC ACTAGTAGGA AGAAAGCAGA
 AGTGATGCAG CTTACACTGC ATAGTCCCTA CCCTTNTGGA TTAAATGGAA AAGTTGCTCA AACATAAACT TGTCTTAAAC
 AAAGGTGGGT AAGANTC

SEQ ID NO:1534: (Length of Sequence = 317 Nucleotides)

ATGGGCATGT GGGTACTACG TTTAAATATT TAATTATTTT AAAAATAAAA TAGGAAAGAT AAAATAGCTT AAAGTGTATT
 GATGCTCTGA ATAACCTTAT GAGTGAATAG ATACTGAAAT TTGAAGTCAG TGTTTTCAC AACAAATCAA GATTTGGGAC
 TGGACTTACT GGGTTGGGGA CTCTTAGGG ATAACGGTGG TGCTATGAGC ATGCTGAAA GATGAGAAGC AAAAGCCTGG

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AATTGGGAGT CCTGTACTGT CTTTAGGGTA TGCAAAGAGG CTCCTTCTTT TCTAGGIGTT CATCAGTACA ATATGAC

SEQ ID NO:1535: (Length of Sequence = 323 Nucleotides)

ATATTACATT GATGTCAGTC TTTAAAGATG GAGTAGGACT TINCAGGCAG CAACGAAAGG GAAGGACATT TCAGAAGCAG
AAATACCATT TGTTAAGGGA TGACAGCCAA GAAATATTAA AGCATATTTG GAAAGTATTG AAAATCTCTG TGTGGCTAGA
ACTTTAGATG AAGAATCAGA TACATCTGGA GAAGGAGATT NAACNGATG ATCATAAAGA ACATTTTATT TAGGCCATGG
TAAGGCTTGG GCACTNIGGA GCCCATGAAG GTTTTTGGAC AAGGGAGTTT CCTTAGGGAG GAGTATNAAG CCATAAACA
AAT

SEQ ID NO:1536: (Length of Sequence = 305 Nucleotides)

AACCACATTT TTA CTGCATC TNC TCACGC TGGATTCCAA CATGCTGGCC CGGAGCGTGG CTGGCTGGAA GCAACTCCAA
CAGGTTTTTC CCTTCCCCGT CATGTACATT ATTTATTTTT GATCTACTC ACTGTCCCAA GTCCAGAGGC AGTTACAAAA
AACACTCTTG ATGCAAAACG TGAGTGGCTA CAACACACGG ATGGGGGTGG GCGCGATTCC CACAACAGGG AGTGGAAATCC
GGGGAAGATG ATATATAGGG GCAAGACGGC COCTTACTTT GCTAAGAGTA TATGGGAGCT CAAAA

SEQ ID NO:1537: (Length of Sequence = 279 Nucleotides)

GGTGGCAGCG GCGGCGCGGC GACTGAAGCG CGCGAAAAGC TGAGGCGGCA ACGTCGGGGA CGGCTGCNCG GGACGGCTCT
GTAGGAAGGA ACTTGGTTCC CCTTCCCTCA GCTTCCGCCC CAAAAGATTG AGAATGGACA GTTTAGAAGA ACCTCAGAAA
AAAGTCTTTA AGGCTCGAAA AACGATGAGA GTNAGTNATC GTCAGCAACT TGAAGCAGTG TACAAGGTCA AAGAAGAACT
NITGAAAAC TGAATGCAAG CTGTAAATN GCAACCATG

SEQ ID NO:1538: (Length of Sequence = 310 Nucleotides)

ATATTTCCCTT CTGCTCTGAC TCCGGAAGAA CTGTCACTGT TGCCTAGGCT GATAATCCCC GAAAAAAGT AACAAATGCA
ATINTACCCC CCACCCCAT ATACAGCCCT CATATATATA TATGAGAGAG AGAGAGGAAA AGATCATGAG ACATGTCTTC
TAGGGAAAAA AAATCTAAC TTCCCTAGCC ACTGTAGTCA TTTGAAACCT GAGTTAGACT ATGAGTTAGG AAGTATTTTC
ATAGAGTTCA ATTAATATAT TTCTGCTCTA TGCATGGATG CTAACAGGTT TAAGGAAACA CAAAAGCCAA

SEQ ID NO:1539: (Length of Sequence = 267 Nucleotides)

GAGATTTTAC TTTGTAATCG AGTAATTTAG CCACACTCTT GTGAGGGAAC AAGCCAGAGC CAGGACCGCA TATTACCCGG
TAAAGCTGCA GAGAAGACTT GAGACTTGTA AGATTGNNCC NGGCTGCAGT CCGTGGTCA GTAACATCTG CAACATTATA
CAGCCAGCAG ATCAGCTCTT CCAGCTGACA GCAAAATGTC TTCACACATT GCACCACTGA TTCTTTTCCC TGINCTCTTC
CTTCCCTGGG GAAGCTGCCC TTNAACA

SEQ ID NO:1540: (Length of Sequence = 354 Nucleotides)

ATTTATTAG ATGAAAAAA ATCAAGGCTT AATTTAAGTA ACTTGTCCAA GGTCAAGGAG TTGACAAGTG GCTGAGCTGG
AGTTCAGCAT CTCAGACATC TTCTTTGAA TCCTTGCTT CCTTGTAAT TTCAGATGAC GGAGCATGAC GGCTGCATGA
TTATGGGGTC ACCGGCCCTG TCCTGGGCCT GAGGGACCAA GGATCAGAAA GGGCAAGAAC CAACTCGNTC AGCTAGTGAA
AGTGCAATTG GACANTGATC CTGTTTCCGG GNTTAACCTT CCGCTTGGCC TTTAAGAGGG NITCTTGAAA TGCACCAAGG
GGGCTAGAG GAAGCAAGCA AACTNCTTGG ACCT

SEQ ID NO:1541: (Length of Sequence = 403 Nucleotides)

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GTGATGTTAT ATCAGGTAAA ACCTGICTAA GGAGAATAGA CAGTAGTTAG TTCAACTTAC TCATTACGTA TTAGGAAGAT
 TAACCTGGTT ATCAITGITT TATACATATA TATATGNAAT ATATATGAGT ATTGCTATAA ATATAATACT TTTACCTTGT
 TTATGATTTT ACTCAATATT CTCCTTTTCC TCTAAAATAA TCTGAAGTGA CTATTATCAA TAAGTTTACT ATGCCAAAAT
 TCATTAATTG CCTTTCACCT AACTTTTGGG GCCATAATAA ATAATAAAAT GTATTGCCAT AACATTAATA AACTACCTTA
 CAAAACCACC AATTAAAATC AAACAACCAA AAAGGTGTTA TTTACATCTG NNCACATAAA TCTACTAAAA ATACAGGGTT
 CAT

SEQ ID NO:1542: (Length of Sequence = 333 Nucleotides)

CTGGTACATG ANTTTATAAA AACATGTCAC GCCCGGCTCT GTGGCTCATG CCTGTAATCC CAGCACTTTG GAAGGCCGAG
 GCGGGCGGNT CACAAGGTCA GGAGATCGAG ACCATCCTGG CTAAACCGGT GAAACCCGTC TCTACTAAAA ATACAAAAAA
 TTAGCCCGGC GTGGTGGTGG GCGCCTGTAG TCCCAGCTAC TCTGGAAGCT GAGGCAGGAG AATGGCATGA ACCCGAAGG
 CGGAGTTTTC AGTGAGCAGA GATCATGCCA CTGCACINCA GCCTGGGTGA CAGAGCAGAG CGGGGACTCC GGAGCAATGG
 GNAGTACAAT CCT

SEQ ID NO:1543: (Length of Sequence = 329 Nucleotides)

CCCTGATAA ACCTATCAGA TTCTGTGAGA CTTATTCAIT GTCAATTAAGA ATAGCAGGGG AAAGACTGGC CCCCATGATT
 CAATTACCTC CCCCTGCATC CTTCCACAA CATGTGGGAA TTGTGGGAGA TACAATTCAA GTTGAAATTT GGGAGCGGC
 ACAGCTGAAC CATATCAGTC TGTATTATCT CTCCTTTTTT CTGCTTAAAG NCACTATACG NAGGTGTTGT TTTACGGNT
 TATACATAGG TATTCTGAAA GATGGGGTTA TTTTCTGTT CANACTTTGA CTAAGTGGCT TCTTTTGTC CCTATGTGCC
 AGAATAGCC

SEQ ID NO:1544: (Length of Sequence = 313 Nucleotides)

CGGAGATCCG TGATGTAACA AGGATTGANC GAATCGGTGC CCACTCCAC ATCCGGGGAC TGGGGCTGGA CGATGCCTTG
 GAGCCTCGGC AGGCTTCGCA AGGCATGGTG GGTCACTGG CCGCACGGCG GCGGCTGGC GTGGTGTGCG AGATGATCCG
 GGAAGGGAAG ATTGCCCGTC GGCAGTCCT TATTGCTGCG CAGCCGGSCA CGGGGAAGAC GGCCATCGCC ATGGGCATGG
 CGCAGGCCCT NGGCCCTGAC ACGCCATTCA CAGCCATCGC CGGCAGTNA ATCTTCTCCC TGGAGATGAG CAA

SEQ ID NO:1545: (Length of Sequence = 384 Nucleotides)

CCCCAAACCT GGAGCTAAGA ACTTCATCTC ACTTTTGACA CCCAGCCCC CAAAATATGG AAGCCCAGGA GAGCCAGGAG
 AATTATAGC AGAGGCTTAA AGAGAAAGTT ATGATTGTT TAAAGTAGAG AATAAGGTGA AAAATAAAC CTGGTACTCT
 GTCGGAAGT CCTGGAAGTC TCCTTGCCCA ACCTCAACTG GCCTGTGGGC TCCTGINTCC TTGCTCTGGG ATGCCATGGT
 GAATGTGAAA ACAGGGGAGG TTGTGTGTGG GGTGGGAAT GGCCINTCGG TTGCAAGGCG AGTCCTTTGC TGAGCCCAGC
 CTGAGACCCA GCTTATGGGC TTTATCCAGG TGAGAAAATN CTGGGGACAT GTGTCGAGG TTTA

SEQ ID NO:1546: (Length of Sequence = 345 Nucleotides)

TTTAAAGAAC AATGATTAG TGAAAATNCT CTCAGTTTTT TTAAATTGGT TCAGCAATTG AITTAATTACT GAATCTTGAC
 CCTAAACTTT TTAGTCTAGA AATGTGCTTG AGGAATACAG GCTGGAGATC AGCTTTTGA CATGCAATC CCTCCTGGN
 TCACATCCAT GTTGAATCA ATTATAAAC TGCCITCCTA AGGCTTAAAA TGATGGTGAT CTACAGACAA GTGCCITCCT
 AGGCACAGG TTGCTGGAGA CTGATGCCAG GCCATGGCT CTAAAGGGA AACTTGAAT CATGGCAGAA ATGGTGGAAA
 GTAGAGAAAT GAATAGAGGG GGGAA

SEQ ID NO:1547: (Length of Sequence = 342 Nucleotides)

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GGAGGCTGAG GTGGGAGGNT CACTTGAGCC TGGGAGGTTG AGGCTGCAGT GAGCTGTGAC TGCACCACTA TACTACAGCC
 TGGGAGACAG AGTGAGACCC TGTCATATAT ATATATATAT ATATGTATGT ATATATATGT ATGTATATAT ATCTCTAATA
 TATTAATATA TATCTAATAA ATGTATCTTA TATATAATAA ATATATCTAA TATATAATAT ATATATTNCC NAGAGAGGGA
 GAGGCTCTTA GGAAATTATC TTCTTGCATA TTATGTTATA TTATGCTATA TTTGGCTATT TCCTAAGAGC TCTATCGTAT
 TATTTCATT TATTTGTGAG GA

SEQ ID NO:1548: (Length of Sequence = 334 Nucleotides)

GGAAATAAAG GTGACATGAA CTAACATTC AATCATGAAT GGTAGAAAAA AATGAAAATG TAACGAGATG GGATCCGGGT
 CAAAGTCAGG GGAGGTATAG TTGAAGATAT TGAAGGAGTC ATTATGATAC CAAAGAAAAT GGAAAGAAGT GGTATCCAGA
 TAGGTTATCC TTGGAGAGTA TCCNGGATG TCTCTTTTCC TAAGACCTTA GAGAAGGAAA GGATGGCTGA TAATATAGGG
 AAAAGTTGAC ATGGAAGGAT TAAATAATTT TTTTGAGGAA TTCACGTAAG GNATGATAAT CTGAATTTTC AGGGCTAGGC
 TCAGAAGCAG GAAT

SEQ ID NO:1549: (Length of Sequence = 362 Nucleotides)

AGGATTCTGG GGGCTTAGAG AGGGCAGCCT GGAGAAGCCA GAGTTAAGCT CAGAACAAGA GGTGCAGGAA GAGCCACAGC
 AGGGAAGGGA AGAGAGATCC CAGAGGAGGG GCAGAGTINIG GCAGGACAAG GGCCCTGCCG TACATGCTAT GCATGAAGGA
 AAATCTTGAG ACTAAGACTC ATGAAAAGNT CCAAAATAAT TATTTCTGTG GGCCCTAGA AGACTNAAGA GACATTINCT
 TCGCCATTG CCCAGGGCTG CCTGGGCAGG AGACAAAGGA ATNAAAAGTC CAGGGGGAAA GCAAAAATCT ATGGGCTTCT
 GAACACATGC TTCCCGGAGC TCGTCTNCAC AGCATCTTCA CC

SEQ ID NO:1550: (Length of Sequence = 328 Nucleotides)

GGACTAATTA ACTAAGAGG TTTTGTACAG CAAAAGAAAC TGTCACAGA GTAAACAGAC CTACAGAATG GGAGAAAATA
 TTCACAACT ATGCACCCAA CAAAGCTCTA ATATCCAGAA TCTATAAGAA ACTTAAACCA TTGAACAACC AAAAAACAA
 CAACCCATT AAAAGTGGAC AAAAGTCATG AACTGACACT TCTCAAAAAA AAGACATACA AGCAGCCAC AAGCATATAA
 AAAATGCTTG ATATCAATTA TTATCAGATG AATGCAAATC AAAACCAACC AAGTCTTTT CTCTGTCTA GGNIAATTTA
 TTTTAGGG

SEQ ID NO:1551: (Length of Sequence = 365 Nucleotides)

CAGGAATTTA CATGGGGAGA CTAACCTATG GCAGCTCTCG CCGTCGGGAT TACTATGACA GAGGATATGA TCGGGGCTAT
 GATGATCGGG ACTACTATAG CAGATCATAC AGAGGAGGAG GTGGAGGAGG AGGAGGATGG AGAGCTGCCC AAGACAGGGA
 TCAGATTTAT AGAAGGCGGT CACCTTCTCC TTACTATAGT CGTGGAGGAT ACAGATCAG TTCCAGATCT CGATCATACT
 CACCTCGTGC CTATTAAAGC ATGAAGACTT TCTGAAACCT GCCCTAGAGC TGGGATATTG TTTGTGGGGC AATATTTTIN
 ATTGCTCTT GTTTAAAAAG TGAACAGTGC CTAGTGAAGT TAGGT

SEQ ID NO:1552: (Length of Sequence = 330 Nucleotides)

GATCCAAAAA AATTACTGA AATAGCAAAA ACGTGGACTT TGGGATTTC TCTAACTGCT GCAAATTATA ACACAGAATT
 GCTCAGTGT AATACITGAN TTGTGGGGCC AAGTCTCTG GCTGCCCTAG TTCTCTTTC TGGCATTTGA AAGCCCTTGA
 GCTAGCTATG GAGCTAATCT TTGGACAGGC TTTTGGTTC CCAGGAATGT CATGCCCTTG AATTTCCAAT CTATATATAT
 ACAGTGTGTG TGTATGTATA NCTGTCTTTT CACTGTAAGG CACCTNCACC CATCCCTTAT AGAAGGNGGC CACAAACAAT
 CAAGCAAATG

SEQ ID NO:1553: (Length of Sequence = 304 Nucleotides)

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CCCTGTGCCC ACAGCCATTT AAAAATCTTC TGAAGGGCCT CAGGGCACAA AGTGATCATT TGGGATCCTA AGTTAAAAAG
 GAAATGCAAG AGTAGGNTAC TCCAATTCCA GAGTCTTTGC AGGAGGCTAA TCCCACAAGA AGGGTAGCAT CAGAGAAGTG
 GGCATTGGTC TTAGTGGTGG ATCATCAGGT AGACAAGTGA TAGTGTGTGT AACCCATCTG AAATTCATTT TACCGTCACC
 ACTCTTACAA AGGACAGTTT ATCCCAAGG ACAGTGCTGA CGGGGAGGGG GACAGGCAGG GAGT

SEQ ID NO:1554: (Length of Sequence = 309 Nucleotides)

TGTGTTACTG ACCATGTTTT TGAGAGTAGT GCCCCTAACC ACTTTGTCTC CACTTGCATA GTGTAGTGAT TTINAGGNCT
 CTGTATGTCA TATTATAACA GAACTGACTG TATATGGCTA TTTTATCCCA TAATCAAGCC AATTCTTCCA GAATATTACC
 ATCAGTATTA CCACATACAT CCTCCCAAAT CTTATTTTCAA AGAATAAATA TATAGTCACT CATGGTTTTT AAGNAAACCC
 AAAACTACTC AACCAAAACC TTGAGGAAGG TTTTCCAGG GNTTCTACC TTAATTATTC ATAATGATT

SEQ ID NO:1555: (Length of Sequence = 326 Nucleotides)

GTTTAAAAAC TGTCCAAATG TCATTTTAAT TTATGAAGGC ACCCAGAATA AGINCTAATC TCATACTGCC CCAATATATT
 TNCGAAGCC AATTCTCTCT TTTATTAAT TTTACTGAAA ATAGCACTTT TTTCTCCCC CTGATAGTAC TGGGTAATGT
 TAGAATGTCC TCTAAATTC TTTGACCTT ATTTACATTC TCAAGAGNTT TTTTAAATT TACCAATAAG ATGTGCTATT
 TGAGGAATTA GACTTTAGTT CAGTTGTACA TGGNTATGT CTGCTCATAT CATTCATGTC TGAGNCTTTC ATTTTATTAA
 TATGGG

SEQ ID NO:1556: (Length of Sequence = 375 Nucleotides)

CCCATCCCTG TTTAGGTGCT TTGTCTCCT TGAGGAGCCT CCAATGCTGC TGCTCCTATA CATGTCACAA TTTCAGACCC
 AGCATGCTAG GAACTGCTGC CAGCGCCTGG TTAAGCCAAT ACTAAATGGG GCCAAACAGG TGAACAGACA TTCTGTCTTT
 CTCCAAACCT CTGAAAAAGA TTCTGCACT CATCTCACAG TAATTTGTTC CCTAATTTAC TCTTAGGAAA TTGTCGTTAA
 AGTCTGATTA GGTTAAGTCC AATTCCTGT AATTAGGATC CTCAGTGAAG AAAAATCTAC CCATCACCAC AATTTATTTT
 CTTTCTTATA GCTCCAGCAT CAGTAATTGT ACCATTATTT TTGGCAGCTC TGGGG

SEQ ID NO:1557: (Length of Sequence = 306 Nucleotides)

AATTCOGAAG ACTATTCCTA TACATTAGAG TGAATTINAG ACTATCTCCA TCATCTCCA GCCATTCTTC AGTGGGAAAA
 AAACGGTGGA ATTAACTAG TGAACAACAG GCTTTCTCAT CTAGTCCCAA TCCAGTCGAT AAGCTGTGTT TNCCAATCAC
 TGCTCCAGCA CAATGGCCTT CAGTTTATTT TTAAGTCTAT GGCATGCTG AAGGACCATG TTCCCATGAG TGACACCTT
 CTGTAAATGT GGTGGCAGAT TATGGGCTGC TGTTTATAGAA GGGACTGNCA ACTTGCTGGG GGTAT

SEQ ID NO:1558: (Length of Sequence = 292 Nucleotides)

AATTCCTCCCT TTCCAAATGT ATTTTCAATC CCTTGAGTGT CTAGGCTTCC TGCTTTTAAG GCCTNCCTTC TAACCCAGGG
 TTGCCCCATT CACCTTAAAA CATTTTTCOA TAACCCAGAA AAAACCAGGN TGAACATACC CAAGCTCCGG AACCAGCAAA
 TMTGTTCGA ACCCGCTGA TGACTCCAG GGAAGCCAA GAGGACAAAG ACAAGGATGA GGACGAGGAC CCAGGGACCG
 NTGGTGAATG GCAACTGCTG TCAACTTCAC TTTTCAACCT CAGNCAGTTT GT

SEQ ID NO:1559: (Length of Sequence = 246 Nucleotides)

GTGGTCCGTT CTCAGCCCAA CAAGAGTGAT CCTTTAAGG TCCACACACG CTGCTCTTCC TTCTCCGCA TGAGCCTCTG
 GCATGGTCTT TCCTCCAGCT GGCCCCGGG TGGGCAGAGC CTCTCTCTG CGGGGCCCCCT GCCACCCCC TCCTTTGCTT
 GGAGTNAGGG TGTTCATACC AAAGACGAA CCATTTCCGC TTAAAGAAA ATATATNCAG AAGCAGCCGC TGCTCGNAG
 CCTGG

SEQ ID NO:1560: (Length of Sequence = 383 Nucleotides)

CCAAAGGTAC AACAGATTAA CTACATTAA GACAGGAATC TTTTCTAATC TCTGTGCCTA TTAAAGAAGC CACCTGCTTA
GAAGTACTTT GTAGATGAAA AAATACTTAT GAATCCACTG TAACITCACA ATCTTGAATG CCAAGGAAAA ACTTTACTAG
TTTCATTTAC CACTATTCTT TAAAGTNCIT TTTGATTTTA TGTTTTAAAT TTTTAAATTT TATATTTTGA GACAAGGTCT
TGCTCTGTG CCCAGGCTGC GGGGCAGTGG CATAAACGTG GCTCACTGTC ACTTTGACCT CCTGGGCTCA AGGAATCCTC
CCATCTTAGN CTCTGAGCA AACTGGGNC ACAGGCATGC ACCATCATGN CCAGCTAATT TTT

SEQ ID NO:1561: (Length of Sequence = 313 Nucleotides)

CCCCCTCCAC CGCAGTCTGT GCCCCGTCC CCACCACCAC CTCCCAAC CACTTACAAC TGCCCCAAGT CCCCACCTCC
AAGAGTCTAC GGGACGATTA AGCCTGCGIT CAATCAGAAT TCTGCGNCA AGGTGTCCCC CGCCACCAGG TCGACACCG
TGGCCACCAT GATGAGGGAG AAGGGGATGT ACTTCAGGAG AGAGCTGGAC CGTACTCCT TGGACTCTGA AGANCTCTAC
AGTCGGAATT NCGGCCCGAA GNCAACTTTC GNAACAAGAG AGGGCAGATG NCAGAAAACC CATACTCAGA GGT

SEQ ID NO:1562: (Length of Sequence = 320 Nucleotides)

AAACGGGCG CGAACCGCAG TATCATGCTG GCCAAGAAGA TCATCATTAA GGACGGAGGC ACGCCTCAAG GAATAGGTTC
TCCTAGTGT TATCAOCGAG TTATCGTCAT CTTTTTGAG TTTTGTCTT GGGGACTATT GACAGCACC ACCTTGGTGG
TATTACATGA AACCTTTCCT AACATACAG TGTGTAACAG TTCTAATACA GCAAATTTAA TACAATTTT TATTAGATCA
AAATTCATA GAATGTTTCA TATGTTTTAA GGAAGGTICA TTGAATTTCT TCTTTTCAAT GGAAGTCTTC ATTTGGAAAA

SEQ ID NO:1563: (Length of Sequence = 299 Nucleotides)

GCACAAGCAT GACCTGAACC TGTCACCTGC CCGINAGTAT TTCACATTC TATAGTTTTT TGTGATTCTG CCTGCATTTA
ATCATCATCA CCAACAAAA TAGTTCCTCT GAAGAAATAT TTTATACTAG GATTCTCAGG NTATCTCCTC TCAATCTCTA
TTGGGATCAC TCCACTCTGA CTGTACACT CATTTTCCCA CTGATGTAGC TGTCTCAAG TTAGAAGTGA AGTCTCAGT
CTTCATTTTA TCAGTCATCT CAGCAGCATT CATATGGTT CAGGCACTCC CTCCTATTT

SEQ ID NO:1564: (Length of Sequence = 325 Nucleotides)

CAGATGGNTC AGTTCATACT CTGGCAGTGA ATTTTATTTT CTCTAAATAA AAATGGACAG GTTAATTTTAT TAAGCAGCTG
TGTATCAAT ATGGTACGTG TGTGINCTTG TATAGATAGA TGTATATGTA CATAATAAC TATACATTTT NCTGGACACA
TAATATTINA GGTGCCITAT GTATGCTAGA CACGTCTTCA CCATCAGTAA AAAAGCACTG CCCTGTTTTA CTGTGATTA
AAAACAAAAT TCTGAAAATA GTGANCAATG AGGCTTACAA CATTGTGTAC AGGNTAAGGN ATCTCAATTT AGGAAAATGT
TGTC

SEQ ID NO:1565: (Length of Sequence = 382 Nucleotides)

TTTTTTTTTA TATTAGTGCC TGCTTTTTAA AAGTTTATTT TACATTTTAA ATACAGTATT TTTCTCATAA AAAAAAATC
CAGGAAGTGC CTAATCCAT GGTTCCTATA CCATATGTAC ATGAAAGCTG ACAGAGAGCC TGACAAATGT TCTGGATGTA
ACAGTATGAA CACCTATGAG CTGGGACTAC TTTGANTCA AAATTAATAA ACACAAATTA AGCACTGCTT AAGAAAAAA
AAATCCAGTT TCTGAACAAC CAAAAGAGAA CAGAGTTAGA TATGTACAAA ACCAGGTATT AAAAAACAGN AAGGAATACA
GCACACAAA ACTCAACAN CCCATATGTA GTGAACGTGA TATACTGCAG TTAATGAAAA CC

SEQ ID NO:1566: (Length of Sequence = 305 Nucleotides)

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GCACGTGTGGC TAATTGTAGC TCAAAAGATC TGCAGAGCTC CCAGGGCGGA CAGCAGCCTC GGGTGCAATC CTGGAGCCCC
 CCAGTGAGGG GTATACCTCA NITACCATGT GCCAAGCAT TATACAATA TGAAGGAAAA GAGCCTGGAG ACCTTAAATT
 CAGCAAAGGT GACATCATCA TTTTNCGAAG ACAAGTGGAT GAAAATTGGT ACCATGGGGA AGTCAATGGA ATCCATGGCT
 TTTTTCOCCA CCAACTTTGT GCAGATTATT AAACCGTTAC CTCAGCCCCC ANCTCAGTGC AAAGC

SEQ ID NO:1567: (Length of Sequence = 292 Nucleotides)

GATTTCCCTG GGGAAGACAA CATCACCAGC AAATGGATGA TTGTCAACTG GGGAGCCATT GACTCTCCAC TTGATTGTGG
 GTTGAGGTTT TNCITCAGCC TCACATAACA AGATGCCATT GCTTCCGGTG CTATACACAG CACTCTGAGG CTTCTTTGTC
 CAGCGAGGAG GCTCTTCTAC TATAACGTGA AAATCGTGAG TGGCTGTTC CAAGAAATG CTGGCTGTGC AGCGATAATT
 TCCTTTGTCC TGGTAGGAGA CATNCTCTAT CTTCAAAGTC TTGCCATAAT TT

SEQ ID NO:1568: (Length of Sequence = 204 Nucleotides)

ACCTACTCAG GAGGCTGAGG CAGGAGAATA GCTTGAACCC AGGAAGCGGA GGTGTCAGTG AGCGAGGTC ATGCCACTGC
 ACTCCAGCAT GGGCAATAGA GCGNGACTCT NTCCCCCGG AAAAAAGAA CAAGGGCTAA NITCAAATCA AATTTTCCCT
 GTACCCTAAG AANAATAATT AGGNCGGGAG ATGTTTGACT AAGT

SEQ ID NO:1569: (Length of Sequence = 362 Nucleotides)

CACAAAGCCA AGTACAGAAC CACAGAATGA AGCCGTCACA AATGTTGAAT CCCAAACAC TAACAGGAAC AACTCGTATT
 TCCATTAATC AAGATTTTAG TATACCAAAT TTTCTAGTTT TTATCTCATG GAAATATAAG GGTATTTTAT CTTTGTATG
 CTACTGAAGG GNAAACATCA TCATACAGCA ATGAATACTT CAAGGGNCTT GTTGATCTCT CTATTATGTA CAGTGGGGTG
 TTAAAGTCTC CCACTATTAT TGTGTGGGNG GCTACANCNC TTTGTAGGGC TCTAAGAAGG TGTTTTATGA ATCTGGGGGC
 TCCTCTTTGG GNGCATATAT AATTTAGGGT AGTTAGTTCT CC

SEQ ID NO:1570: (Length of Sequence = 262 Nucleotides)

TGCTAAATGA TAGANGACAG ATTCAAAGTT GTAGTTACTG CGTAACTTTA TTTATGAGGC ATTTTAGAAT AGGCAAACT
 GATCTNTTGT GGTAGAAGTA AGAAGTGGGG TACCCCTCG AGGAAGAGAA TTINCTTTGA AGTGGCATGA GAGGATTTTT
 TTGGCTAATG AAATTATTTT NATATCTGAG TAGGGTTGTG GGTACACAG TTTAGGCATT TNCAAAACAT CATGGAACCA
 TTCATCCAAG TCCTGTGCAT TT

SEQ ID NO:1571: (Length of Sequence = 402 Nucleotides)

TGCTAAATGA TAGAAGACAG ATTCAAAGTT GTAGTTACTG CGTAACTTTA TTTATGAGGC ATTTTAGAAT AGGCAAACT
 GATCTGTTGT GGTAGAAGTA AGAAGTGGGG TACCCNCTGG AGGAAGAGAA TTINCTTTGA AGTGGCATGA GAGGATTTGT
 TTGGCTAATG AAATTATTTT TATATCTGAG TAGGGTTGTG GGTACACAG TTTAGGCATT TGTCAAACT CATGGAACCA
 TTCATCCAAG TCCTGTGCAT TTTACTGTGT GAAAATTATA TCTCGACTTT TTTCAAAAAA GGAAAAATA CTTAATTATA
 ATATAGCAIT TATGNATTAA AATAATCCN TTATGTAAAA ATATTTTATT GGNTTGGTCA AGATTATGA TTGCAAAACCA
 CC

SEQ ID NO:1572: (Length of Sequence = 417 Nucleotides)

CTACCAGCCC GTTTTCACAA CTAGCAGCAA ATCCTGAAGC ATCCTTGGCC AACCGCAACA GCATGGTGAG CAGAGGCATG
 ACAGGAAACA TAGGAGGACA GTTGGCACT GGAATCAATC CTCAGATGCA GCAGAATGTA TTCCAGTATC CAGGAGCAGG
 AATGGTTCCC CAAGGTGAGG CCAACTTTGC TCATCTCTA AGCCCTGGGA GCTCCATGGT GCGATGCCA ATCCCTCTC
 CTCAGAGTTC TCTTCTCCAG CAACTCCAC CTGCCTCCG GGTATCAGTC ACCAGACATG AAGGCCTGGC AGCAAGGAGC

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GATAGGAAAC AACAAATGTGT TCAGTCAAGC TGTCAGAAC CAGNCCACGG CTGCACAGCC AGNGTATAC AACAAATGA
GCATCACCGT TTTCCAT

SEQ ID NO:1573: (Length of Sequence = 368 Nucleotides)

CAAATAAGTT AGAAACATGA AAAATTCCTA GAACCTTAGA TGAAAAATTA AATTTACTAC TAATACCCAC CTGCAATAAT
TTCCCGTAGT TTGGGATCTA GGTTTACAGT GCATGGCAAA AAGACTTTTA CATCTCGAGC CACAAGAACT GGGGTCCTTG
AAGACAAAA CACTTCAAAA TTTCTTATAT CTCCATCAAT TTCAAGAAGT GGCTCAACAT CCTTAGTTGT TGGAAATATC
TTTGATATTC TTTCGTAGAT GGTTTTAAT GTCATTTGAT CTGGAATACC TTCAGTCTCT TCCAAATATA ATATGAGNCA
TGAAGTCCGG TATGGCCACT GCTCAGTAAG GTTGATCCCG CTAGCAAG

SEQ ID NO:1574: (Length of Sequence = 397 Nucleotides)

AATTTTAAGC AAATGTTATG TTAAAGACT GTTTTGATGA AAACCTTTAG AATTGAGTTA GTAGCAGAAT ACATAGCTAA
ATGTACTTIN CTACAAATAG AATGAGATAT TTGATTTAAA ATATINCTTT CCTCTTGAAA TAGGATGTTA GATAGGGACA
TCTCATTTTA CCTATCAAGT TCTGAGTCTT GCTTTAGAAC TACTTCTTTT AACTTAATTN CATGCATACA CTGGAAGACA
ATAATATGGC TTTTTAACTG CATTATCTTT AGTTGAAACT GATGGAGAAA CAAAATACT GCTTATACCA TATTGGGTAC
ATGCTGAATG TTTTAAAGA CTAGCCAAA CTGACATTTT TTAAATTAATA ATAAGATGTT TTAGTTTCAA ATTAGAG

SEQ ID NO:1575: (Length of Sequence = 296 Nucleotides)

GGACTCAGCC TTCCGCGCA TCTGCATGAT GATCGGTGTC AACCCGGGG GCGTTTGCA GGTTGGGCA GCTGGGCTCT
NAGGGCAGGC GCGGCNCTG GGCTCGGGCG GCCCTCACC TGGGATCCGT CAGGTTTCAG GACTTTATTT TCTTCTCAA
TGNITGAGCC TCCTGGTGA GCCCGAAGAT NACCTCGGG ACATGTTTAA TAAGGTGAGG CTCTGTCTGG GCCGTGATCT
AGTTCCGGGA GCAGGCAGGA NGTGAGACCA TCTGGTAACA ATNGGGGCTN GGGATT

SEQ ID NO:1576: (Length of Sequence = 289 Nucleotides)

CTTTATGAAG TAGTAATTC TGAGAGGTGT GCTGGCTGAA AACATAATAG GTTCTGGAAG AGCCAGGTAA ATGCCTGGNT
TTAGACATGC AGGGGTTAAT CAAAATAATT TAGGAGCGTT TTCAGCTGGT GAGCCTCATA TGGGATCTTC GAACCGTGG
CGAGAAGAAA ACCGGTGTIT AGGNAGCACC AGGCACAGTG CTCGGAAGGG AGAGGCTNGC CGGCCAGTGT GCAGCTCAGC
TNTTTCGAGG ACGGAACCG CAGCCTNGCT GINTCCAGC AGACCCAGG

SEQ ID NO:1577: (Length of Sequence = 320 Nucleotides)

CAGACTCTAC TCAGATTTCC CGCCTATGCC CCTAGGACAG AGCTGGAAGG GAAGGAGGCT GGGCCTATTT AGTCATAATG
CCTCCCCACC AGGTCTAGCT TTCAATCATC CATGAACCT CACCAAGGG CCAAGAACTG AGTTCACTGC ACCCTGGACC
CCGTGTGAGG TAGGAGAAGT AGACGTGGG AGCAAGGTTT CTCTCCTAAT TTNTTGCAT CCCCTCAGTG CCCAGCACAG
CTCCGGATAC AGGGCAGGTT CACAGTCAGC GTGTTCACCT GGNCTGTGT ATGCACCTAA GGAAAAGNCT CAATTTTCCT

SEQ ID NO:1578: (Length of Sequence = 217 Nucleotides)

AATCAGGAGA ACTGTTAGAG CCATACCAGA GAAATCACA AGAAAGGCAG GACTGCAAAG NCTAGTGA GGCTGTGAGA
AAAGGTAAAC CCTTCTTAA GCTCATCTGC CCTTTAGTT ACCACTGGCT GTCTACTCC TGGATTTATG TGACTCCCTT
AGCTATACTT TCCANCCCC CTGGGATGTT CCCACTCAT CCTATTCAT CACAAAG

SEQ ID NO:1579: (Length of Sequence = 375 Nucleotides)

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TTGGTCCTCA AGTCCTATTT TAAAATTTTG TCAATTAGAG GACTCTTGGT TCTCTTGGTT GACTCATTCT CTGCTGATTT
 GTTCTCTGTA CTTCGAGCAA ATAAAGTGCA GTCATTGAGA ATGTCCTGT GTCACGTGA TGTATCAAGG GATCTTCATG
 TTAATATCTG TTTCTCTGAC AACTGTGTTT TATACTTTGT ACTGTAGCTT TCATTGGAGA AGCCCTGGGC TCATAAGAGT
 GATTGTGTGT GGCATTTCTT TATGGAACAT AAGCTTTTGA AATATACTTG AGGTAAATAT TCATGGGAGA CATCCAAATG
 CAGTAATGAG AGTACAATGA AGACAGCATT TINGACTTTG GAAACCTGAG TTCAA

SEQ ID NO:1580: (Length of Sequence = 325 Nucleotides)

TCINCTGATG CACCCATGAG AGGGGAGACA GCACTGTCTG CTCTCGCAGT TTTCCCTTAA CACTCCCTTA TCTGCAGACT
 TAAACTAGGA GCCCTGGCA GAGTCCTACC TCCAGAATCA CAAAAGTGTA GAAGGAAAGT GAGAGACATT GATTGACTTT
 ATATCTGACT TACTAGTTTC CTAAGGCAGA GATTTTTTAG AAAACTGCCT GGCCCTGGCC AGCCAGGAT AGATAGGGAT
 GGGTAAGAAG CCCTTINAGAA TGTGGCAGTA TGTGGCTTNG ACTTCAGACT TGTGAGATTA GGGGTTTTAT AGGGGTTTTT
 TTACC

SEQ ID NO:1581: (Length of Sequence = 402 Nucleotides)

GCAGATCAAG AAAAAGTTTC AGCCAATGAA CAAGATCGAG AGGAGCATAC TACATGATGT GGTGGAAGTG CTTGGCCTGA
 CATCTTCTC CTTTGGGGAA GATGATGACT GTGCTATGT CATGNTCTTC AAAAAGGAGT TTGCACCTC AGATGAAGAG
 CTAGACTCTT ACCGTCGTGG AGAGGAATGG GACCCCAAGA AGGCTGAGGA GAAGCGAAG TTGAAAGGAG CTGGCCAGA
 GGCAAGAGGA GGAGGCAGCC CAGCAGGGC CTGTGGTGGT GAGCCCTGCC AGGACTACA AGGACAAGTN CAGCCACCTC
 ATCGGCAAGG GAGCAGCCAA AGACGGAGNC CACATTCTAC AAGCCAATA AAGACCTACG GCTTTTTTCC CNTGGCCAAT
 AA

SEQ ID NO:1582: (Length of Sequence = 286 Nucleotides)

TCTTAGTTGA TTAACAACAA TAATTGAAAT AAAAAATTAT GTTTATNCTT ACATGTATGC CATGTAGCAC TTTAAGGAGA
 TGAGTTTATG AAATTCATGA ATGAGAGGAT GATGTAAGTT TAAAAATCAT TATTTTAGTT GCTTTATTCT NCTATTTTAA
 ATTATAAAT AACACAGGTG GCCTGTATTT TGAAAAGAGC CCTTCTCTCC ATTTGANCTT TATAAAGACT GAGGCAGTAG
 GTGTAAATA TTATCTCCAC TTTATATTG AAGGAAATGG GGGCCA

SEQ ID NO:1583: (Length of Sequence = 323 Nucleotides)

CTAATTTTTG TATTTTTAGT AGAGATGGGG TTTCACCATG TTGGCCAGAC TGGTCTCAA CTCCTGACCT CAGGTGATCC
 GCCTGCCTTG GCCTCCAAA GTGCCAGNT TATAGGCATG AGCCACCAG CTTGGCCTTC CAGTTGTGAC CTGTGTAGGA
 TACTGCTTTA ATTCATTTTC CCATTGAAAA TAAGCATGAA AATAACTGTG CAGTCATAAT TGTGGTATTT NCTGTAAGG
 AAAGTGGCAG GGCTCTGAGT GTTTATCGGG AGACCTAACC CAGTNTCAGA GGGGAAGTCA GAAGGCTTAC TNCCCAATGG
 GGG

SEQ ID NO:1584: (Length of Sequence = 301 Nucleotides)

AAATACTTGT AAATCACTTT ATGTTCTGA GTAAGGAAGT AATGAAACAT ACGTACAAGT AATCAGTAAG ACTTGTTAGA
 CAGCTGTTGT TCAGGATGCC TTTAAAAGGG CTGGTAATGC AGTTACATTC TAACAGAGAA GTCCAACTA CAGGTAAAAA
 CTACGGCTTG TACTGTGAAA AATGTGCAGC TTTTCAGTTA TAAACTAGT TGAACACTGG TTTACAAGGT AATCCGTAGG
 AACAGAGAGA CTGTAGGAAA ATATTCCAGC ACTTTGAGTT GTGTTTGGC AGCAGCATTT G

SEQ ID NO:1585: (Length of Sequence = 328 Nucleotides)

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AAATACTGAT TTCAGACCTT CTGCTCTAG AAGTCAAAAT ACTTTCCTCC TGACAAGAGG TAAGATAAGG TAGAAAATAG
 AAACACTGGA AGAGAGATCT GGACTCCTAA AGCTGTGATG CCATAGTGTA GTGGGGGGGG GTGCGTGAGG AAGTCAGGAA
 TGCCGCAATG TTAAAGGGAA AGGGAAGATG GAGCAAAGTG AGTCCCAGGG CCAGCAGGGG GCCAGCCTTN TTTGACAGGG
 GCAGGGGAGA AAAGGCCAGA CTTCCTATAC ACATGCTAGA GGGGAGGGCT AGTGTGAAG GGTAAATAGT TGAAGGAGTC
 CACGGGCT

SEQ ID NO:1586: (Length of Sequence = 256 Nucleotides)

GGACTATCTG TATGGCAGAC TCATCAACTT TGAGAAGAGG AGGAAGGAGT TCGAGGTGAT CGCCCAGATC AAGCTGCTGC
 AGTGGGCTG CAACAACCTAC AGCATTGCGC CAGATGAGCA ATTGCGGGCC TGGTTCGGG CCGTGAGCG CTCAGCGAGA
 CTNAGAGCTA CAACCTGTG TCGAGCTGG AGCCCCATC CGAGTCAGCC AGCAACACCC TCAGGACCAA GAAGAACACA
 GCCATINTCA AGCGCT

SEQ ID NO:1587: (Length of Sequence = 371 Nucleotides)

GGATTCTACA GGCATAGACT TACACGAGTT TCTGATTAA ACATTAAAGA ATAATTCCAG GGACAGGATG ATACTTTTGA
 AAATGGAGCA GGAAATTATT GATTTCATTG CTGACAACAA TAATCATTAT AAAAAGTTCC CTCAGATGTC ATCGTATCAG
 AGGATGCTTG TCCATCGAGT GGCAGCTTAT TTTGGATTGG TTCACAATGT GGATCAAACA GGNAAATCTG TTATCATCAA
 CAAGNCCAGC AGCACCAGAA TTTTACCAGC CAGTCTTGTC TNGTCAACAG GGGNTTCCAA GGGCTAATAG GAGTNCAGCA
 GCCCACCTCA GAGTCAGACG TGGTTAAATN ACCCCCAAGG GACTCCGGTG C

SEQ ID NO:1588: (Length of Sequence = 314 Nucleotides)

CACACAGGAT TCCATAATAC TCCTGCTGIG TTCGAATAT TTGTAATCA CATGGGATTA CTGAACACTA CTACGAGATT
 CTGAATGTTT GTNGCTCACA TAGGATTCOA AAATGCCCCC GCTGTGTTCT GTTGTCCCT CACATAGGCT CACTGCTGCT
 GGGTCTCAG TGTTCTCAC TCACATAGAA TTCCAGNACA CTGCGAAGAA TTTCTGAATG GTTTCTGTGA ACATAGTATT
 CCAGCACACT CTCGCTGTTG TTGAATGTT TGTCCTCAC ATAGGATTCC AGAACACTTC TGCTGATGTC TTGA

SEQ ID NO:1589: (Length of Sequence = 256 Nucleotides)

GAOGAGGCAC CATGCGTGAN ATCGTGCACA TCCAGGNGG CCANINCGGC AACCAGATCG GNGCCAAGTT TTGGGAGGTC
 ATCAGTGATG AGCATGGGAT TGACCCCACT GGCAGTTACC ATGGAGACAG TGATTTCAG CTNGAGAGAN TCAATGTTTA
 CTACAATGAA GCCACTGGTA ACAAATATGT TCCTGGGGC ATCTCGTGG ATCTGGAGCC AGGCACGATG GATTCTGTTA
 GGTCTNGACC ATTGG

SEQ ID NO:1590: (Length of Sequence = 313 Nucleotides)

GGCAACAAGC CAAGTAGCAA AGATATAAGC AACATCAAA TGGAGCCTGA AATATGATAA GAGCATACT GCACCTTAAAC
 AATAATTTTG ATACTGGAAT GATTATTTCA GAAGCAATAT TTTTNCIGAA AAGCATGGT CTCTGTACA GAAAAATAAA
 AAAGTGAGCT GCCACTCATA GTGAATTAAG AGCTGTGGG TGAAAGGGTC TCTTTTATAG CCAGTTTGAA ATTTTTCATA
 TAATAAAAAC AGTATGTAAA TATTATATAT ATATACACAC ATACATATAT ATGCATATAT GTACATATTT CTG

SEQ ID NO:1591: (Length of Sequence = 296 Nucleotides)

TTTINAGTCTC CGGCCTCACA ATTCAGCGAC TGCAGCTCGG CCAAGGCCAG GGGAGACCTG GGTGCTTCA GCAAAGGTCA
 GATGCAGAAG CCATTGGAAG ACCCTTGGTT TGGCGGGCGG ACGGGGAGA TGAGCGGGAC AGTGTTCAG GATTCGGCA
 TCCAGTCTAT TGTCGCAAG GAGTAGGATT NGGGGCCAG GCCTGGCCTC GGGGTTCCCC CGCTGCTGC TGGCCAGTGG
 CNGAACCCCC CANTNCCTGC CACTNTCACA CAGTATTTAT TGTTACCAA ATGGCT

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SEQ ID NO:1592: (Length of Sequence = 299 Nucleotides)

GGAATTCCCA AATTATGGGT AGTCCAAAAG CCAAAGGCAA TGTGAGGAAG GACACTCCCC AGATAAGAAC AAAACACAGAA
ATCTGTATGT NCTATGTGTT ACACACAGTT GCGAATAATC AGATGTACAC ACATGATGCA AAGGCACGCC GCTACACATT
TATGTGATAT TCAGACATAT GTTCAAATAG AGGAGGTGAA TATCTTTTAA TAAATACAAT TTAGCAAGTA CAAGAATGCT
GATCAGCTGC AGCTCAAGAG GAAAGGGGGG AAAAAATCTT ATGGGAAATT ATTAATACT

SEQ ID NO:1593: (Length of Sequence = 378 Nucleotides)

CCAGTTTGGT GATTCTNTTC TGTGCTGCT GATCTATTGG CGTGAGAAGC TGAAAGTGAC CAGCCAACAG CCATAACTTT
ATGTTTAGTG AGACTCATAA TGGGTCTCCT GCTGGAAGAT CTCCCCTCTA AGANTCAGTA ATTCTAGACC TGCAAAGTTT
GAAGTTGTAA GCATGGGAAA CACAAATTC CCAATAGGT CCAGATAGTG ATAGAGAATA AGACACTTAC TTGCCTACTT
CCATTTCTCA GCCCAGATAT TCTACCTATA GTGACATGC CCATGCAATG GGCTATTTGG TTTGAGGTAT ACATTGCACG
GTTGAAGGAC AGTGCTCAT CCTGACAGG GTGCCCTTIN CCAGTTGGCA CCACAGCT

SEQ ID NO:1594: (Length of Sequence = 353 Nucleotides)

ATTTTTNCGG GGGAGGGTGA TGTAGATGAG AGTCTATGAT ATAAAGCAGT AAAAAAATG CTGTGTATA GGGATGCAAT
ATTTTCGGTG TAAGGAAGAG GTTTTAATTC ATAAATAGA AAACAGGTG GAGAAGTCTT TAGGAAAGGG ATACCTTTTG
GGTTGGCTTT TGAAGGAGAA GTTTATACCC AGGTTCAAGC TGAAGGGCTA AGTGAGTAAC TGAAAGGGCT GAGCTATTTG
GATTACCATG AGGAATTTGT GATGGCTGGG AATGTAGGT GTGTGACCAG ATGTGGAATC ACAGAGGGAG CCCACAGAGG
AGCTTCGCA CATAANCTAA AGAGTTAAT TTT

SEQ ID NO:1595: (Length of Sequence = 343 Nucleotides)

CAATATATTA AATCTATTTT GTAGCTGGAC TTCACITACA ATGTAACAGA ACATTGAATA TTAGATTCTG AGCATATTCA
TGCAAACITC CACTTTGGTG AAAGTGATGA CAGTGGAGTT CTGGAAGACA ATTTTCCTTG TAAACACCAA GTTTTGCACT
TTGGACTATG CTCTCAAGAT AGAACTTAC GTGAGTGGA AAAGAAAATG TATAAATGTG AACAAATATT CCTTACCACA
CAGAATAACC CTGGCAACAA ACAATATCCC CAAGTCTG GINATTCAAT CTCACCTG GGCAGGAAGG GTGAAGGAGG
CTGCACCTGG GNCACAGCCT TTT

SEQ ID NO:1596: (Length of Sequence = 373 Nucleotides)

TAGTCAGTTA TTGCTGCACT AGAGCTAAAT AAAAGACATA AATATCTAAG GCACTTACTG GAATAAACAT CTTATTTCCG
CTAAGAGGTT GGCTAGGGAA GCTCTGCTTC AGAGTATGGG TTGAGTATAA GCCTGTNCCA CATGCTTTT GCTCTGGGAC
CAGGAGTTGT GCAGCCCATC CTTTCTCAA GACAAAGCT GAGCCAAGCA AGGACATTTA AAGCTTCACT TCTGCTCACA
TCATATCTAT TGGNCAACA TTCCATTGGG CCAAAGCAA TCACATGGC CAAGTCAAGC ATCAGTAGGT CTGGGGGAAT
ATCTTTCTCT CTACTCTTGG ACACATGGGA AAGGGTTATG CATACTAATT CTT

SEQ ID NO:1597: (Length of Sequence = 276 Nucleotides)

GATGTCCAT ACTTGATTAT TAGTTCTAA AGAAGTATT CTTAATCCA AGCCTAATAG CTCATTATGTC ATTAGTTTCT
AGTGCAGAGA AATGTACTTG ATGAATTTT GTTGACTTTT TTTTGTGCTA GCCAATATGA AGGTTGCCAG TCCCTGCCAA
AATCAGCACT AAACTATTT TNCATGAGTA ATAACAATA TATTCTTTT TAAATAGCAC CTTTAACCCA AAAATCTTAA
GCCTATATA ACATTCACTC AACANTACAC TCAAAA

SEQ ID NO:1598: (Length of Sequence = 355 Nucleotides)

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TGTATTGCTA ACTGTCTTTG TAACTAATTT ATGTATACNC TAAATGGTAT AGCATGTGAT TTTATTATAG TTGATTAACT
 TTGTAATTNC TGTAAC TGCA TCGATATCCC AGTCTACCTG GAAAATTAAG TCTATTAAAC ATAGTTGCTG TGGGAGACAG
 TACTATTGCC AACTGAAGCC TGAATCCTTC ATTTATTTTG TCCCCAGTGA CAGAGTGGAG GTTTAGAGGA GTGGGGTTAG
 ATAATGCTCA GATTAGAAAT ACAAAGGCAG CTGTCAGATC CTCCCATTTT ATTTGTTTGA AGGAACTGAG GTTGGTAAAC
 ATCACAAGNG CTAGTTAACT GGTGAGTAGC AGCCC

SEQ ID NO:1599: (Length of Sequence = 313 Nucleotides)

GGAGGTGAAG GACACAGTGG ATGGGCAGAG GNTCCTGGAG AAGAAGGGCA GTNCTGCNCT CAAGGACCTC AAGCGGCANT
 GCATTTGAG CCGAAACGGG CAGATAAGCT GCAGGAGCGA CTNCAGGACA TCCTCACTAA CAGCAAGAGC CGCTCAGGCC
 TTNAGGAGCT GGTTCCTCTCA GAGATGAACT CACCAAGCCG GACCCAGACA GGGGACAGCA GTAGCATCTC CTCTTCAGC
 TACCGGGAGA TCTTTGGGA AAAGGAGGAG CTTCGGCTTG TTCCAGCCAG GTCCCTATCC AGCAGNCCTN AAG

SEQ ID NO:1600: (Length of Sequence = 277 Nucleotides)

AGTTCACAGA ACTCCAATTC TTTATTAATC ACAGCTTGCT CACAATGACA TACAGGAAAA TAGCACTAAT GAAGAGTAAA
 TATGCAGGCA GCAACCTTCA GGAGTTGGGA GTTGGGGAGA AACGACTTCA AAAGTCCGAT AGGTACTTAT GGTGGGTATC
 TGGTGATTCT TAGTTGGCAC AAATGCCCTG CCTAGCCCC TTAAGTGGT CANTTTTACA GATGGAGTGT TTTGTTGTG
 GTGTTGTAG TAGGCAGGAT TGCCTTACAC TGGGGGA

SEQ ID NO:1601: (Length of Sequence = 228 Nucleotides)

TTGAGACCAT CCAGGCTAAC ACGGTGAAAC CCCGTCTCTA CTAAAAATCC AAAAAAAAAA AAAAAAATT AGCCGGGCGT
 GGTGGCTTGC GCCTGAAGTC CCAGCCACTA AGGAGGCTGA GGCAGGAGAA TGGCATGAAC CTGGGAGGCG GAGTTGCACT
 GAGCCGAGAT CGCGCCACTG CACTCCAGCC TCGGCGACAA AGCAAGACTC TGCTCTAAAA AAAAAAA

SEQ ID NO:1602: (Length of Sequence = 299 Nucleotides)

GGAAGTCCTT TCTAATGAAG AGGGGAGATG TTATCGATTA TNCATCATCA GGGGTTTCCA CCAACGATGC TTCCCCCTG
 GTTCCTATCA CTGAAGAAGA TGAAAAATCA GATCAGTCAG GCAGTAAGCT TCTCCAGGC AAGAAATCTT CCGAAAGGTC
 AAGCCTCTTC CAGACAGATT TGAAGCTTAA GGGAGTGGG CTGCGCTATC AAAAACTCCC AAGTGACGAG GATGAATCTG
 GCACAGAAGA ATCAGATAAC ACTCCACTGC TCAAAGGATG ACAAAGACAG NAAAGCCGA

SEQ ID NO:1603: (Length of Sequence = 263 Nucleotides)

AAGGCAAGAA ATTAGCCTTG TTAAGAATTT TAAGTGTAAAT GGAAGCCAT TAGAGGGTTT TAAACAAGGA AAGATGTGAT
 GTGACTTATA TTCTAATAGG ATTGCCTTGA TTCACCTATG GAGAATGGAT TNNTGGGATC TCAGTACTGG GATACTGAGA
 TCCCAGGGGG AAAATATCAC TAAGGTGGA ATTGCTTTTC TGCACATTAA AAGCAATTCN CTTTTCTCTT GAAACCTCCA
 TGTGATGTTA ATTAGGGTAA ATG

SEQ ID NO:1604: (Length of Sequence = 260 Nucleotides)

ATGAAGACGT ACGACTTATT TTGTGTCTT GAACATAAGT NCTTGTCTAC ATAAAAATGTC CTATGAATGT TGAGTTTAA
 ATACTCGAGC GGTGACTCAC GCCTGTAATC CCAGCACTTC GGGAGGCCAA GGCGGGCGGT TCACCTGAGG TCAGGAGTTC
 GAAACCAGTC TGGCAACAT GGTGAAAACC CCGTCTCTAC TAAAAATACA AAGTAGCGG GGTGTCTGG CGTATGCTGG
 TAATCCTAGG GTTCTGTCA

SEQ ID NO:1605: (Length of Sequence = 290 Nucleotides)

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GACAGACATT CAAACCATGG CAGGTGGCAA GAAGTATCAA ACTACTAGAT CCTTGGGATT GINCTTTGTA CTGGGGTGTA
TTTTTNCCAA CAATCCTAAA AATCATATGA ATAGAGATAG CAATATATAT CTNACCCATT TGGAAATGCA CAGAGATTCA
GGAGTGTTC CATAGAAACA GAAGATCAIT GGCTTTTGTC CATTCCCAAC GCCAGNAATC TGTTTTCCTT GACTCTTTTT
GATCTGTGTT TCTGAATGIN TTGATATACT GCGCCTACTG GGTGTGCAGG

SEQ ID NO:1606: (Length of Sequence = 290 Nucleotides)

CTCACTTGGG TACTACAGTG TGAAGCTGA GTGCATATGG TATATTINAT TCATTTTGT AAAGCGTTCT GTTTGTGTT
TACTAATGG GATGTCATAG TACTTGGCTG CCGGGTTTGT TTGTTTTTGG GGAAATTTTG AAAAGTGGAG TTGATATTAA
AAATAATGT GTATGTGTGT ACATATATAT ACACACACAT ACACATATAT TATGCATGTG GTGAAAAGAA TTGGCTAGAT
AGGGGATTTT CCTGAACACT GCAAAAATAG AACGTAGCAA AATGGCTTCA

SEQ ID NO:1607: (Length of Sequence = 365 Nucleotides)

GCTCCACTGA CCAGCTGTTT CCTGTCTCTC CTCTCTCTG AGCCTCCCTC TTCCCTGAGA CACAATAATA TTAAATTTG
GCCAATCAAT AACTCAACAA TGGTGTCTAA TAAITGTTC GGTGCGAGGA AGAGGCATAC ATCTCTCACT TTAAATCAAA
AGCTAGAAAT GATTAAGCTT AGTGAGGAAG GCATGTCAAA AGCCGAGACA GACCAAAAGC TAGGCCTTTT GTGCCAGTTA
GCTAAGATGT GACTATAAAG AAAAGCTGTC GAGGGAAAT TAGAATGGTA CTCCAGGGGA ACACACAATG ATAAGGAAGC
AAACAGCCTT ACTACTNGA TATGGGAAA AGTTTTCAGC TTGG

SEQ ID NO:1608: (Length of Sequence = 294 Nucleotides)

CTCAGGAAGC CTCTCTTCT TCACCTACCA TTAATACTC TCCAAGCATA GAAATCCCTG GGAATTCGA GAATAACTCC
CACTATTITA AAATTTATAT TCAGATTGT TTCGTTTCAT AAGACACATC AAACAGGCCT ATACAAAAGG TTTAGGAAA
GAAACAATG GTGAGTCCG GCCCTCTCG AATTCAGTG CACCTCATGC AAGTNTAGGA AGGCACGCTG GATCGTCTAT
CTGATTCCAA AGCTGTCTT TGCCATCTCA TCCCTTGNC TGCCCCCAA CCT

SEQ ID NO:1609: (Length of Sequence = 393 Nucleotides)

CAAAAGCTAA CTCTTAATAA GAAGATGAGG AAATAAAATC AGTCAAAAAG GGAGGAATAT GCATTCCCAG AATTAAAGGA
CCCCGGGTCC AGTTTGAGGA GGACTCTGG CCAGATACAA GCCCTTGTA TAATNCTCA GAGGGAGGAG ACCTTATTIN
CTCCTINGAG GTGCTAGTA TGAAANTGTC TTATTTTGAA ATGTGATTCT AGCCATTATC AGGNGCAACT GCAGATAATT
CCCATTTACA GAGGAATGCT GCTAACAGGT GTGGNGGGA GCAGCGACAN CGNAAAATTC TGCTGTCATA GGTCAAGTTT
ATGTTGGTTT TCTTTGAAA TCAAGGGGTA GAAAATTTCA TGCCTCTAGA GGAGAGAGAG GAAACACATG AGG

SEQ ID NO:1610: (Length of Sequence = 464 Nucleotides)

TGCTGTATT TATTAAATG CCTTACTAC TTTTAGATGG CCATACGTTT TCAAAAGCAA AGACCTAGTA AGCCATTGT
GTTCAATTC TAAGCTATCT TAGGTACAGG TCCAGATTAT AAATGTTACC TGCTAATCAG AGAGCAAATT TTTAAATTAA
TCACTGTAA ATCCACATTA AAAGAAAAG AAACCTAGAA AAACACATAA ATTTCTTTTG TGATCCCACT ATTCAGGAAA
ATCCATTGAA AAAGCAGATG ACTTATCCGT GTTAAATTTT TAAAGNCCCT ATTTAAACTG TCATGTAAAT TCTNATTTAT
CTAATTTTTT AAAACACATA TAGNNTTTIA CTCTCCAGTT CCATAANTGN CTCANTTCG GTGANGGTCA TTACAACAGN
CATTACGNGG GCATATCGGN NTAAAANGGC CNTGCGTCC TGNATCNGAG GNGGGTTAA GGTC

SEQ ID NO:1611: (Length of Sequence = 465 Nucleotides)

ATAATTATAA GAAAGAGAA TTCTACAATG TAAAACCTT TAATATAAGC TGTTTTAATA ATTGGAAAAC AGAATGANT
NIGTTTTINT TTGTCATGCC CAATTATTC ANCAAGTTT TATTATAAC TTGCTACATG GTAGGCACAG CTGTAGGTGT

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TGGAGATATA GAGGTAAACA AGTCTGACAT GATCTATGCT ACCACGGAGT TCTTATTTTC AAAGTGAAG GTAGAAAATA
AATAAAATG ANCTAGAAGA GCAAAGTGCC TCTGAATGAG CATGCAGANG CATGTTTTCA AAATGCTCTG GNGTGGGATA
AATAGATCAG CAACACACCA GGCCATGCAA TTTNGCAGCA AATCACTTCT GCAGTCTAGC TGCTGTTTTT CCTACTCTGG
AATCATACTC CCCCCTTCGG TCATCTNTGC CAGTTTCNCT GNGCTTCACC CTACCCCTCN TTTIN

SEQ ID NO:1612: (Length of Sequence = 458 Nucleotides)

ATGAAATGA ACAACCTAA AGAGAAATGT TCTTACCGTT CCACAGGAAC CAGCTTCTTC CACTGGGCCA CTAGGTCCCT
GGCAAAGCTT CCAACATGCT CGTGTTCG CAAGCTATTT ACTGTTTTCC CAACCCAGT CTCCTAAAT TTGACAAAGT
AATTGTTAGA GGGGTCTGGA ACTAGGCTAA CGTTTTCTA AAGAAATAAG GCTTTCTACT TTGAGAACT CAACAAGCAA
TACTTCCTTC CTACAACATA CCCTGCAAAT CTTAACACTA AATTACTTTG TGCTATGNC CCAATCTCT AATGACACAC
AGTAGCAAAG NGTACCAAGT TCAGAACTTT AATAACAGNG GTNATTAGGG CAGGIGTTAG GGCCTAGNT AAGNGCTTTG
CATCAGTTCT GGATCAGNCT TTTAAATAAC CCCTTAAGNG GGGNTNAGNC CCTTTTTT

SEQ ID NO:1613: (Length of Sequence = 322 Nucleotides)

ATGTGGAGAT TTGTGTGGG CTAGGGCAGT CCAGAGGAGA GATATGTGGC AGGACAAGTC TCTACCCTAT ACAAGTNCCT
CCGGCAAGCC CTCAGCATAT GACATAGGCC CAGAGAAGGA TGCAAAGAT TCTGGTCATA AATGTTTTT AAATATCAA
TAAATCATAT GTGCATATG ACAACATGC CTTCACACT GAGTAAACC AGACTCACCT TCAAATATAT CAACAGTTT
NTCAAGGCC GTTAAAAATC AGGCATCGGA CCTCTGGNIN CGAGAGCTGG TTINATGGG AAGTTAGATC AACCCGTCAT
CT

SEQ ID NO:1614: (Length of Sequence = 280 Nucleotides)

AGTATCAAGG GATAAATAT ATTTTAAIT TTGTATTCA CTGAAAATT GTAAGNCCA TTTTATAATG TATGCTTGC
AAAATAAGTC ATGGAAGCCC TGAAAAATTA GTCAATTCAC TAATCAAAGA AACATATATT AAAGACCTAC TATGCATGAG
GCACCATGCT AATTGCTTTG AAGAAGACAA AGTTGAATTA GACAGGNTC CCGTTACAA GNTATTTTACA ATGCAAAGG
GGATACAAGA CATATAAAG GCTATGGAAC TGCCCTTCG

SEQ ID NO:1615: (Length of Sequence = 393 Nucleotides)

GCGTGGTGGT GCGTGCTGT AAATCCAGC TACTACGGAG TCTGAGGCAG GAAAATCCCT TGAACCAGGG AGTCGGAGGT
TGCAGTGAGC CGAGAGCAGC CCACTNCACT CCCGCTAGC GACAGANIGA GACTCCGTCT CAAAACAAA CAAAACAAA
CAAAAACCA AAAACACTGG GAGTCCAGT TTGTAGGAAA TCATTAAGAT TTTATTTT GAGCTCCAGA ACGAGTGAGG
ATGACCTGAT AATTTTGGTT TGGCTCAGT TGTATGTGT TTCTGTTTTG CTCGATGACT ACTAGAACAG TTCTCAAACT
GTGTGGTGGG TAAGAATCAC CTGGGGACTT TGACCAAGTN ACATGTCTAC AACACCCGGC CCTACAGGC TCT

SEQ ID NO:1616: (Length of Sequence = 353 Nucleotides)

CCACCCAGC CTCCTGGAG CTATCCCTTT CTATCCCTT CCATCCAGCC CCTGGCCACC ACCATTATAT CTATTCTGGA
ATTCCACAG GAAAAGCAGG CACTTTATAA ATCAGCGAGG GATTCACGGC GAAATGAGAC TGTTCGTGAG TNATGGCGTN
CCGGGTGCT TGCCGTGCT GGCOCGNC GGGAGAGCC GGGGAGAGC AGAGGTGCTC ATCAGCACTG TAGGCCCGA
AGATTGINTG GTNCCGTTC TGACCGGNC TAAGTCCCT GTCTGCAGC TGGATAGCG CANCTANCTN TTCTCCACTA
GTGCAATCTG CCGATATTTT TTTTGTGTA TCT

SEQ ID NO:1617: (Length of Sequence = 227 Nucleotides)

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TTTCTTCCAT GCAACANTCT GNAGACTTAA GTGGCTTTCT NCTGTACTNC CATAGAACCC ACCCAGTACA TACCTCCAGT
 GNGGCACTGA TTTTATGCTA TACATATGAC TGTTGTGTCA TCTCTCCAC CAGACTGTGA GTCCCATTTG AGTAGGAACT
 AAATTTTNTT CAACACTCTG TCTTCATCAC CTCGTGTAGT ATCTGTGTACA GAGTAGATAA TGATTAA

SEQ ID NO:1618: (Length of Sequence = 362 Nucleotides)

GGAAGGTTTT TAATGCATGA NGTATACTTG TNATCCTGGA GGTTCGAAAA GATTCACTAA AGATAAAGTT TGGCAAAAAT
 GATTCTCTCC CTAGGATTTG GGGATATGTA AATCAAACCA AAGGCACATT CTGCAGCTCA CAGCAACCTT CATTTTITGT
 CCTAGATTGA GTTATCTATC AAGAATCATT CATTCCTCT CAGCCCTTGC AACTGTTTCC TATGACTTTG GACTTGGCCA
 TGCAACTTGC TTTGGCCAAT ACAATGTGAG TTAATGTGCT TTAAGTGCAT GTAATTAGGT CAGTCCCTCC CTCCTTGAGC
 TTCAACTCTC CACCATGAGG ACAACATTGC CCTCCTTCTT GG

SEQ ID NO:1619: (Length of Sequence = 344 Nucleotides)

GCAACCTCAT CCCAGTTTCA AGTATTTCTC CTGCCTCANC CTCCTGAGTA GCTGGGATTA CTGGCGCACC ACCACACCCG
 GCTAATTTTG TATTTTITAGT AGAGACAGGG TTTCGCCATG TTGGCCAGGC TGGTCTTGAA CTCCTGACCT CAGGTGATCC
 ACCCACTTCA GCCTTCCAAA GTGCTGGGAT TCCAGGCATG AGCTACTGTA TCGGCCCAA TCTTCTTTAA GTTGTGTCTG
 GCCTTTGGCA GAAATAGCCA CAAAGNCAGG GTAGGAACGT TTTACTCTTC AAGTGTATGAT GGCATCCGAT AANCTTTTAG
 AGGGAGGTTT TTAAAATGCA ACGT

SEQ ID NO:1620: (Length of Sequence = 379 Nucleotides)

GCCAGCCGAA GCTCCTCAGG CTCCCACCT CTACAAGCTC CTTCTGCTCC AGCCCACTC ACCAGGCCCG AGTTCACACC
 TAGCACCTTC CCTGGGAATN ATCTCCCCCT GGTGGCTCT TTTACTTAT TCAGCCTCAA ATGTATCTC CACTGANAGG
 CCTTCTCTGA CTTGCTGAGC TTGATTCCTT CCCTCCCCA GINACATTAC TCCGTGTTAT GGTACCCATC CTTGTCTCTT
 TAGCTGTITT TTGTCTGTAT TGGCTCTTCC ACTAGACTGT AAGCTGCATG AGGGCAGGGG ATGTCTGTIT AATNCCAGTT
 GCTCAGGATA GTGTATGGCT CGTGATAGAT GCCTAGNACA TTTTAAAATG GGGACGGAT

SEQ ID NO:1621: (Length of Sequence = 283 Nucleotides)

GATTTGGGGG CTCGGGGAGG CAGAGAATCT CTTGGGAGTC TTGGGTGGCG CTGGTGCATT CTGTTTCTTC TTGATCTCAA
 AGGACAATGT GGATTTNGGG ACCAAAGGTC AGGGACACAT CCCCTTAGAG GACCTGAGTT TNGGAGAGTG GTGAGTGGAA
 GGGAGGAGCA GCAAGAAGCA GCCTGTTTTC ACTCAGCTTA ATTCTCCTTC CCAGATAAGG CAAGCCAGTC ATGGAATCTT
 GCTGCAGGAC CTCCCTCTAC TACTTCTGT CCTAAAAATA GGG

SEQ ID NO:1622: (Length of Sequence = 356 Nucleotides)

TTAATTTTAA AGCAGATAAT ATTTCAAATA TTTCTTTTGA AATAGACCAT TTGTCTGCC TTGAAGTATG TTAGTACATT
 TTAAGAAAGT CAGTGGGTTA AGGAGTCAGT GCTGTTAGTA TTCTATCTTA AAACACTTCC CTTCTACCTA CCTAATAAAA
 TGAGGGGCTC AAGAGAAATA TTTCTAATTC TCTAGCGACA TGGCTAATTT TTTTPTTTAA TGTATTTTGT TATTTTITAGT
 ACAGATGGAG TTTCACCATG TTGGTCAGGC TGGTCTCAA CTCTGAGCT CAAGTATCT GCCTACCTCA GGCTCTGAG
 TCACTGAGAC TGTAGTTGTG TGCCACCATG CCAGGT

SEQ ID NO:1623: (Length of Sequence = 361 Nucleotides)

TTTGAGACAG AGTCTCGCTC TTTCGCCAG GCTGGACTGC AGTGGCACTA TCTCAGCTCA CTGCAAGCTC CACCTCCCG
 GTTCACGCCA TTCTCCTGCC TCAGCTCCC GAGTAGCTGG GACTACAGGC GCCCGCCACC ACGCTGGNT AATTTTITGT
 ATTTTITAGTA GAGACGGGGT TTNACCATGT TAGCCAGGAT GGTCCTGATC TCCTGACCTC GTTGATCCGC CTGCCTCGGN

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CTCCCAAAGN GTTGGGATTA CAGNGTGAG CANCCGTGCC CAGCCGINAA GTTAAGATAT TTTAAAAANA TCTCTGCAAG
TTGAGGAAGT NTTTCAGGAC TCTTCCTGC TTAGTCTCAC T

SEQ ID NO:1624: (Length of Sequence = 350 Nucleotides)

CTTTGTGAGC TTTTGTACCT GCGGGATCCG AGCCAGATTG ACAACAATGA GCCCTACATG AAGATCCCTT GCAATGACTC
TAAATCACC AGTGCTGTTT GGGGACCCCT GGGGGAGTGC ATCATCGCTG GCCATGAGAG TGGAGAGCTC AACCAGTATA
GTGCCAAGTC TGGAGAGGTG TTGGTGAATG TTAAGGAGCA CTCCCGGCAG ATCAACGACA TCCAGTTATC CAGGGACATG
ACCATGTTTN TGACCGCGTC CAAGGACAAC ACAGCCAAGC TTTTGTACTC CACAACCTCTT GAACATCAGA AGACTTTCCG
GACAGAACGT CCTGTCAACT CAGCTGCCCT

SEQ ID NO:1625: (Length of Sequence = 333 Nucleotides)

GTCTTCTGTG AGACAAGAA ATTATAAGA TGGCAGAAAT TATTACGCAC GTTCTACCTC TATAATTCAC GTTCCATGAA
TCAGTACTTC ATTTCTTTTT TATGGATGAA TTAATATTCC ACTGTACAAA TATACCACAT CTGTGTTTTT CATTCGTCTA
GGTTAAAAAA TTTTATTTTT TATTTTTAIT TTTTGTAGA GACGGGATCT CACTGTGTTG CCCAGGCTGG TCTTGACCTC
CTGGGCTCAA GTGATCCTCC CACCGTGGCA GTCCAAAGTG GGTAACTGT ACGCTGGTCT GAAAGACCTT GCTGAAGAGA
GAAGAGGCAA GCT

SEQ ID NO:1626: (Length of Sequence = 314 Nucleotides)

GACTGTCCGT GGACACTGGT TTTAAGCCC AAGAACTGAA TATACAGTAG CAGTGCAGAC TGCCTCAAAA CAAGTTGATG
GTGATTATGT TGTGCTGAA TGGAGTAAA TTATAGAATT CTGCACCGCA GACTATTCAA AAGTTCATCT AACACAATTG
TTGGAGAAGG CTGAAGTGAT TNCAGGACGC ATGCTTAAGT TTTCTGTTTT TTATCGTAAT CAGCACAAAG NATATTTTGA
CTATGTTCCG TAAGNITCAA AATATATAG TGATTGTTT TACTAAATAT AGTTTCAAAT TCTAGGCTCA GGT

SEQ ID NO:1627: (Length of Sequence = 375 Nucleotides)

CCCTGGGCAC CTGGTACCTG GGGACCTACA AGGTGGTGAG GGAAGGGTAC GAGTACATTC CTNTCCCTC TGACCTGGGC
GCTAGAAGGG CAAAGAACCC GAGCCTGCCA GCTTGGCTC CTCCACAGC CTCCCTCGGA GGCATGCCAT GCCAAGCACT
CTTCTGTCT CTGTTATGA ATAAAGAGA TGGATGGCT TATTCMTATA GAGAAGTGAA TTTCACTTAC TCCCTGGCC
CGAAAAC TAG ACCAATGAG GAACTGTTTT AGCTCATCAA ACTGTTATAT TTATTTTCAA CAATGAAAC AACACAACAA
AGTGGAGTCA ATCCACTAAT TTTTTTAAAT CTAACACAAT TGTTGCACA ACAAT

SEQ ID NO:1628: (Length of Sequence = 434 Nucleotides)

TGCACAGGCA CACCTCCACT CTTTATATCA TTTTCTCCAT CTTTCATTC CCATCTGTAC CTCCAAAAT TTGCTATGAA
TCTAATTCAT CTTTGTCTC TCTCTCAT GGGTGCCCTT GCTTCTGCCA GTCTTCTTC TCCTGCCCA CCCAACTTC
ATGAATTAGT CTTTCTCCC AGGAGCTCTG ATTTCTAGAC TGCTTTGAAA ATGCTGTATT CATTTTGCTA ACTTAGTATT
TGGGTACCT GCTCTTGGC TGTTCTTTT CTGGAGCCCT TCTCAGTCAA GTCTGCCGA TGTCTTCTT TACCTACCC
TCAGTTTTCC TTAAACGNG NACACAAC TCAGAGAGTGT TAAGNATAAT GTTACTTGGT AATGTGTATT TATGAGGAT
TGTTGTGCTA AGAATGNGTA GGTAAATA GGGG

SEQ ID NO:1629: (Length of Sequence = 341 Nucleotides)

CCTCAAAGCT GCAGGAGGT GGGGTGGCC GGCAGACAG GTGGGTCCG CATCCGGTAC CAGTGACAGC AGCCTCTCCT
CTCCACGGT GTGCTGTGT TGGGCTGTG GCCAAGTGT TTGCCCGCC CTGACTGTN TCCTTCGGGA GCTGCCGAGG
ACTGCAGAGA GGGCCTGGCT TGTCCCTCT AGGAGCAGT GGGNNGTGT CTTCCTGCA TCCCTTCA ATGGTTGAA

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ATAATGATTC CACTGTGCAT GAACACCATG AAGGTATCTT GGCAGCCAGA GTCACCTCTG TTCCCGAAGT GGGAAACCTN
GGGAGGGTCC TCAAACCCCC T

SEQ ID NO:1630: (Length of Sequence = 380 Nucleotides)

CATAAAACCA TCCTACGATG TGCTGCTGCT GCTGCTGCTG CTAGTGCTCC TGCTGCAGGC CGGCTCAAC ACGGGCACCG
CCATCCAGTG CGTGCCTTC AAGGTCACTG CAAGGCTGCA GGGTGCTCC TGGGACACCC AGAACGGCCC GCAGGAGCGC
CTGGCTGGGG AGGTGGCCAG GAGCCCCCTG AAGGAGTTCC ACAAGGAGAA AGCCTGGAGA GCCGTCTGG TGCAAATGGC
CCAGTGACCC CCAGACGGG AAACCGGGTG GCAGGCCAG CCTGGGCCA GGCATGGAAA CGGACAACCC CTAATCGCTT
TAGCTACTGC TTCTAACAA TCCTTTCCCT TGTGTTAAGG GAAACCAGGT TCAAGGGGG

SEQ ID NO:1631: (Length of Sequence = 383 Nucleotides)

AGAGGATTTA TTTGGACAGG GCTGTGCTGA GAGTCCCACC CTCACCCAC AATGGGCGGG GGCCTGGCA TCGAACACCA
AGCTGAGTGA GAAGGGCTCC TCCAGGCTC GCAGGAGCT TGCTGGCTTC TCCTGGCTCA CAGCAGACTG GGGCCGACTC
CCATCGGAGG AAGGCCAGCA TCCTAGGGCA GCCAGTGGAG GGCTGGCAGA GGGCTGTGCC TNGAAGGTCA CTGTGCTATC
TTCCAACCAC ACTGTGTGAG TCTCAGATAC CATATGTGGA ATCTGCATCA GGAAGGTCAA CTTGAGGTCA TTTTAAAGG
GATTCCTCC GNAAAAGGAG CACCGCATCG GCGNCTTA NCCGGCTT CCGTTCATCC CGA

SEQ ID NO:1632: (Length of Sequence = 424 Nucleotides)

GGGAAGTGAG CTCCTGAACC AACTCTGAAG GAGACACCCA CTGTCTAAGC CAGTCTCACT CTAGGACACC TGCTAGCGA
CCAGCAAACC TGGAAATGAAA GGGCAAGTTC CTCAGTGGCC CCTCTGCATC AAAGGGAGTG GCTCTGCCCT CTCTAGTCTC
TGACTACCTG CTTAGTGATT TTGCTTCTG TGCTCCAGA CCAAGAAAA CCACGTCTCT TTTCTTCTT CATCGACTCA
TCCCCTCTT ACCCTATATT GTCTCTCCA CTCTCTGCT CTGCTGGCA GGCCTAAATC TGGGCCACCA GCCTTCTGG
GACATACCTA TTTCGCAAC TGAACCTTCC CAACCCCTAG GAAACAAAG GTATTTTACA AGGCTCTGG ACCTTGACCC
AAAGAGGCAT GNACCATAAT TACT

SEQ ID NO:1633: (Length of Sequence = 417 Nucleotides)

TTTTTCTAC AGCATCTTT TATGTCTTT ACCATTACTT TAATGCATTT TAAATTTAT CTACATTAAT TGGGAATAT
TTGCATTTT TTCACTCTCT CTCTCTTTN CTTTNCCTT TTTTGGATT GTCTTGGCA GAGAGTTCT CCAACACCG
GGTGGACTTG GAATTTTTTA TCAGCTGCAA TCTGAAGACT TGCTTTTACT GTGGAATAGG TGACATTCTT TTAGGACCTC
AGAAGCTCAA GTAGTTAAT GCAAGTCTT TCCAGAGCT CACTCTCTT TATTTTTTA ATTAGAATTG TGATTTATG
AAGNCTTACC ATGGGGTTCA TATAATTINT NAATNGANCA GCTTTATGA GGTATAATTC AATACCCCTT TAAAGNATGT
AACCGTGGG TTTAGAC

SEQ ID NO:1634: (Length of Sequence = 423 Nucleotides)

AATATCCCA ATGTGCAATG CATCACCTGA GACAGAAGGC AGAAAGCATC AAGCTCTCTG TTTATCCCA TTCAATGACA
ACCAGAACTT ATTTTTTTT AGATGGGTC TGTCTCTGTC GCCCAGGCTG GAGTGCACTG GGGCATTCAT GGCTCATCGC
AGCCTCCAA TCTCAGTCTC AAGCAACCT CCTACGTCAG TGCTCTGAGT AGCTGGAATC ACAGGCATGC ACCACCACAC
TTGGCTCATT TTTAAAAAT TTCTGTAGA GACAGGATCT TGCTACATTG CCCAGGCTTG AGGTGCCGTG GTGCATTCAC
AGCTCACCGC AGCTCAAACT CTTGGTCTC AAGCGATCCT CCGNCTCAG CTTCTGGGT GGCTGGGCT CAGGCATACA
CCACCATGTC TTGGTCAATT TCT

SEQ ID NO:1635: (Length of Sequence = 384 Nucleotides)

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CAAACTCAC TTGACCCCA TTAAGAGGCA AGCCTGGCAC ATCTATCCCT GGGCCTTTAG AAAGCCATTT GCCTCAAATG
 GCTATAGGGT TGIGGGGTGG AGGGAGGAAG GGCTGGGAGG GAGTNGGGAG GAATTGCTAG CTGTAGTGTG ACACATTGTA
 GTGTTTGCCA GGAAATGAGC CAGACATGGT GGTGTATGCC TGTAGTCCCA GCCACCCAGA AGGCTGAGGC AGGAGGATCG
 CTTGAGACCA AGAGTTTGAG CCTGCGGTNA GCTGTAAATG ACCACGGCAC TCAAGCCTGG GCAATGTAGC AAGATCCTGT
 TNICTACAAG AAATTTTTTA AAAATGAGC CAAGTTGGG TGGTGCATGC CTGTAGTTCC ACTA

SEQ ID NO:1636: (Length of Sequence = 362 Nucleotides)

CAAAATGACT GACTACAGCA ATGCCTTCCG TGTGCCCCAC ACATCATGAG CACCGCAAGA GACAAAAGAT TAACTATGAA
 ATATAGTAAT CTAAGCAAGC CCACACATAC ATATTTTTGG GGATTTCCCA CCATCCTGAA TAGTATCACT GCAGTIGACA
 CAACTTCCAG GGAAGTCAG AGTAAGTGCT TAATATTATC CACGAGAAAG CAAAACATAA TATTAGTGTG CACATTTCTG
 AATGAGAAAC TAATGCTTC ATTGATTTCA ACAATGTAGT GGNAGNAAC TATTTGAGAT CTCTACAATG CCTAAATGCA
 TTCTATTTAA ACTCAAGGTA CTATTTTCAT TTTTACCATA CT

SEQ ID NO:1637: (Length of Sequence = 205 Nucleotides)

GGGCCCCGAC GAGGCTCAGA CCTCTNTIAC GNCGACTACT ACGAGGACGG CGAGGTGGAG GAGGAGGCCG ACAGCTGCTT
 CGGGACGAT GAGGATNACT CTGGCACGGA GGAGTCCINA CACCACCAGA ATAAACTTGC CGAGTTTANC TCACTAGGGC
 CGGACCCGTG GCTCCTTAGA CGACAGACTA CCTCACGGAG GTTTT

SEQ ID NO:1638: (Length of Sequence = 253 Nucleotides)

CACTCAGGCT CACCGTCTG CTCTCTGCAC CAGCCTTTCC AGAGCATNCC AGTNCATG GCTTCATCTG TTAACGTGTTG
 ATCACTTCAG TCCGATTTT TAGACATAA TGGTTTCCTT AACGCCATTC TAACTGCCTG TGACTCATTT TCACCTACAG
 TGTATTATGT AACGCCAAAC CAACAAATCA CAGGTGCTTG CTCTGTCCA TAAATCTCCC CAGTCTAACT TTTGTCAIT
 CAACATGRCT CGT

SEQ ID NO:1639: (Length of Sequence = 360 Nucleotides)

TGTGSCCAAG GACCCTATCG TCAATGTATG GTACTCTGTG AATGGTGA GAAGTGGCAC CTACATGGGC CATAACGGAG
 CTGTGTGGTG TGTGGACGCT GACTGGGACA CCAAGCATGT CCTCACTGGC TCAGCTGACA ACAGCTGTNG TCTCTGGGAC
 TGTGAAACAG GAAAGCAGCT GGCCTTCTC AAGACCAATT CGCTGTCCG GACCTGCGGT TTINACTTTG GGGGCAACAT
 CATCATGTTC TCCACGGACA AGCAGATGGG CTACCACTGC TTTTGTGAGC TTTTTTGTGAC CTGCGGATC CGAGCCAGAT
 TGACAACAAA TGAGCCCTTA CATGAAGATC CCTTGCAATG

SEQ ID NO:1640: (Length of Sequence = 321 Nucleotides)

GTTGGACGCC CTCGCTCTG TCTGAGAGC AATGCTTCT CCATGGGGCA GCATNGGCC TGGATGGGCC TGAGCATAGC
 AGACCAAGTG GTCACATGTG CATGTGTGGA CATGTGTGCA TGTGTGGATA TGTATGCTCC TGAGTGTATC TGCAATGCTT
 NCCTGCACAC ACAGTGCTCC CCTCCGATGC TGCCAGCCTG TGGTGGACTT CCTCTTCTGA CCCCCTTCTT GCCNCCGGNC
 TGTTTTATCA GTGAAAGGAC TTAACATAAGC AGATCTCCAG GTTCACCTTN TGGAACTCAG CTCAAGGTNA GCACAGCAGG
 T

SEQ ID NO:1641: (Length of Sequence = 266 Nucleotides)

GGTGGTGCCA CTGCTGTGAT AGTTTTTCCC ATCTTAGTAG CCGNACCCAT AATTAATGCC TACTCACATC AAGTTAGCAC
 CACTCAAATG TGGGCCATTC ACAGGCAGCC AGGGATCCTC TTGNCCTG AGGTGGGGG CTTCATCAG AATGCAAATC

372

TRCCGAGGCG TGAAGCACAA TTTAKTTCAA CTGCCATKTK TTCCTTCACA GTAAGRCCTT CTGGRGGAAG GAAGCAGTGT
GTTTGAGTTA TACCTTAGGC CAAGCT

SEQ ID NO:1642: (Length of Sequence = 295 Nucleotides)

AAAAGCCCCA GCCTCAGGAC CCCGGTCACA GGCACCCGGG GGTGGGGGTG ACCAGCAGCA GTTCAGAGGC AGGTGTGGGC
AATGTGGGCC TGAGTCTCCT NCCCACTCAC GTCACTNCCC GCGGGGACAC AGCGGCATTT NTGGGGCACT NGGCATGCCG
GGTTCCCTAAC CTCAATTATT CATTCTGCTC TCAGGCACCT CCTGACGAGA CCTTGGCCCA GGAGAGCTCG GCTCGGGGAC
AGAGGAATGA GACTCAGTGG GACGCAGAGN CCAACCCCAT CCCCACCCCT GGGCT

SEQ ID NO:1643: (Length of Sequence = 359 Nucleotides)

ATCATTGGTA GTTTAACTT TTCTCTAAT ATTAGATTGC ATGCAGGATT TTATATCTAA TTAATCTGGC AGATGGCCTT
TAGAAAGTTC AAAAATAAAA TGCAGCAATT CATATTGGCA GATTACTAT TGAGACCAAT GCTTTCTTAA CTAAAAGGTT
TTGTTTAAAA TCGTTAGTTT AGGAAATCTG ATAAAGATTT TTGAATATCA GAGCGTTTAA AAGAGATTCT TACTTTACAT
CTGGCATATT TCTTGTTTA CATATTATAA TTCCATTGGA ACATGGCTGT CTGTAAACT ATGTATATGA TCCGGAAGAG
ACTCAAATTA AATTAAGGTT TAACAGCCAT CAAGTTCAT

SEQ ID NO:1644: (Length of Sequence = 293 Nucleotides)

TGAACCCGGG NGGCGGASTT GCAGTCAGCC GAGATGGCAC CACTGCCTC CAGCCTGGGT GACAGAGCCA GACTCTGTCT
CAAGAAAAAA AAAAGAATTA AAAGATGTA ACAAAGCAA GAAAGTGCTG TATGAACGAA ACGGAAATAT CAATGAAGAG
AAATAAAAT TATAAAATTC AGGAAATGAG ANGTACANIA NCAGNAAAT CACTGGAGAG ATTCAAAAGC ATATCTGAGC
AGGTAAAAAA AGTAGTGAAC ATGAGATAGG TCAAGGGAAA AGTACTGAGT CTG

SEQ ID NO:1645: (Length of Sequence = 332 Nucleotides)

AAAAGCTGGA TATTAGGAAA TGTAATATT AATTCTGAAT TTGTTACTGA CTCAGGATGA CCTTGCATGA TGCATCCAAC
CTTCTTTTCT CTATATCAGA AACTAAAGA ATAAATGTAA CATCACATTC TTTTCTCCTT TGGGACAAAC AACTATGTAC
AATTGAATAA AAATGAAATT GCATAAGTNG TGGATAGAAT ATGTTTGGGT TGGTTTGAAC TTAGCACACT GTTTAATAAT
TCAACATTTT TTATACCTGT GCAATAAATT TTAAATGAT GTCTGAAATG CTTTGAAATC TTCAGAAACA GGTTTATAAA
TGGCATAAAA AA

SEQ ID NO:1646: (Length of Sequence = 210 Nucleotides)

GAAAGTNTCT CCAATCACTC TCTGCACAAT GAAGTGGCGG ATGACTCCCA GCTTGAAAAG GCAATCTCA TAGAGCTGGA
AGATGACAGT CACAGCGGAA AGCGGTGGAA TCCACATAG CCTGAGTGGC CTGCAAGATC CAATTATAGC TCGGATGTCC
ATTGTGTCAG AAGACAAGAA AAGCCCTTCC GAATGCAGCT TTGTTAGCCA

SEQ ID NO:1647: (Length of Sequence = 246 Nucleotides)

TCCACTCCAA GGGTTTCTGA CCCAAGAGGT GGGGACCAAA ACCATGCATT CTAAGAAGT CCCAGGTCA TGCTGCTGTT
GCTGGACTGA GGACCACACT TTGAGAACCT GTGCTCTAAG TGAATACTTG GAAGTCGTTT CAGGACATGG GGCATAGAAA
CTNAGGAGTA GCTGAGAGGA AAATNAAGAG AAGCTGAGAA GAAGCTGAGG ATCCTCAGAG GAGCAGACAG AGAAATGTGA
AGGGTT

SEQ ID NO:1648: (Length of Sequence = 338 Nucleotides)

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TCCACTCCAA GGGTTTCTGA CCCAAGAGGT GGGGACCAAA ACCATGCATT CCTAAGAAGT CCCAGGTCA TGCTGCTGTT
 GCTGGACTGA GGACCACACT TTGAGAACCT GTGCTCTAAG TGAATACTTG GAAGTCGTTT CAGGACATGG GGCATAGAAA
 CTGAGGAGTA GCTGAGAGGA AAATGAAGAG AAGCTGAGAA GAAGCTGAGG ATCCTCACAG GAGCAGACAG AGAAATGTGA
 AGGGTGGGGT TTTATGINTG GGAAAGGGAC COGAAGCCCA GGCTGAAGAG TTTTAACTTT GGGCCCAGAA ACTCAACCAT
 CAATGGAAAC AGGGCAGT

SEQ ID NO:1649: (Length of Sequence = 275 Nucleotides)

GCACCTINAG GATTGAGACC CGGAAGGCTT CAAAGGCTGT CGCAAGGAGG AAGAACTGGA AGAAGTTCGG GAACTCAGAG
 TTTGACCCCC CCGGACCCAA TGTGGCCACC ACCACTGTCA GTGACGATGT CTCTATGACG TTCATCACC GCAAAGAGGA
 CCTGAACTGC CAGGAGGAGG AGGACCCTAT GAACAAATC AAGGGCCAGA AGATCGTGTG CTGCCGCATC TNCAGGGCG
 ACCACTTGA CCACCGNTG CCCCTACAAG GATAC

SEQ ID NO:1650: (Length of Sequence = 270 Nucleotides)

AAAAGCCAGA GGGATGAGAA TGAGAAAGTT AAAAGGGAGG TCAGGAAAGC CATCTTTTAG GAGAAATATA AATNGACAAT
 SCTTTAAAA AGGAGCTGCC ATCATATTAT ACCCTGACCC AGCTGGATAC GAACAAATC AGCCTTGSCA ATGCAAGTCT
 TACATCTATT TTATATAGAT TGTATAAAG AGAACTGGA GCATTTTCAA GAGGGGTATG TATGIGTTTG TGTGIGTCTG
 GTAATTAATG AAAGAGAGGC TATTGAATTT

SEQ ID NO:1651: (Length of Sequence = 372 Nucleotides)

TCTTGCTTTT TAATGTGATT TCCTAACACT AGAATTTTCT ATTTCAAGTT TTTGTACGTG GCCTTGCGTC TCCTTAGTAC
 ATTTTATAGT CGCTGTAGT TGATCCATT TTTCTTGAAA TTGAATCTC ATCTGACCTA ATTTCTTCT TGAATCCTAC
 ATCTCACTTT CTCAATGGAC GCAGTGACGC AATGAAGCAT CCAGCAAAGC TTTTGTGTTT GATTGTTTAG GACGTCACCC
 TGTFTTGTG GAAGTTGTCT CACAACACT TCTCTTCTG CTTCTCTCT TCCATATTGA CATGTGTTTT CTTTTCAAAT
 GGATTAACIT TATTGATCAT CCTCTGTGTC TTCTAGCAA AGACGGGTGC TT

SEQ ID NO:1652: (Length of Sequence = 314 Nucleotides)

TTTCTGAGTA TGCTGCACTG GATTATTAGC ATGTTAATA GTCAAAGGA CTGGAATAAA CATCAGGAAG ATTTCATAAA
 GTGGTGTAAG TAGAAAAAA AGGTAAACA ATGAGCTGCA TGTGATAAG TATAAGACAC TGATCCAAGT GGTGGCTTCT
 GAACCATGAT ATTACTTAAN CTAGAGTGTT AAGGTCAGCT TAAGTCAAAA TAAACAAAG CTCCAAACC CTCATTTTAA
 ACACAGTAGA TAATAGATGA NTCTGTATC TTGGGAGATA GTACAAGCCA AANGTTACAG CTGTGTTAAA ACCT

SEQ ID NO:1653: (Length of Sequence = 323 Nucleotides)

TAGATATGAT GGCTGGAGCT GCAATAGCTA ACTTGCAACT ATGAGGAACT ATAGGACTTT GGTCTTAACA TTCCTGAGCT
 CCTGAATCAA TACTTTAACT ACCTTCTATG AGACTTCTTG TCACATGAGA AAAATTAAGC CCCAAATTAA ACCCTGCTCT
 TTNACTGTAA CTCTCAATTG AGCATAATTC CTAAATGNTT TAATCAATTC TACTCTACTC TGGCATGATT TTNAAGGCAT
 TAACCATAAT TTCCTTCCAA TCTAAAAAGG GAACANTAC TTACTGGAGT ATCTAGTATA CATCAGATAC TGIGTATATA
 GGC

SEQ ID NO:1654: (Length of Sequence = 352 Nucleotides)

ATCTTGGCCT GCAGGAACAT GGCAAGGGCG AGTGAAGCAG TGTCACGAT TTTAGAAGAA TGGCATAAAG CCAAGGTAGA
 AGCAATGACC CTGGACCTCG CTCTGCTCCG TAGCGTGACG CATTTTGCTG AAGCAITCAA GGCCAAGAAT GTGCCTCTTC
 ATGTGCTTGT GTGCAACGCA GCAACTTTTG CTCTACCCCTG GAGTCTCACC AAAGATGGCC TGGAGACCAC CTTTCAAGTG

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AATCATCTGG GGCACITCTA CCTTGTCAG CTCCTCCAG GGATGTTTTG GTGCCGCTCA GCTCCTGCCC GTGTCATTGT
GGGTCTCCTC AGAGTCCCCA TCGATTTACA GG

SEQ ID NO:1655: (Length of Sequence = 325 Nucleotides)

AGGGTAAATT GTGAGACTGT TTGTATATAT TTTTGTGTTA TATGTTTTTG TTGTTGTAT GTTGTTATNT TTATTTATAA
AATGATAGAT CTGTGGGTAG GTTCTGAGAA ATGAATAGCT TGTATTTCTT TTTTATGAA AGAAGAACAA AATGAAGTTC
AAGTGGAAAG TATCTCCAGA AAGTTTACA TTTTCTTATT AACCAACTCA TTGATTGGCA TGTGAACTT GAGATATTTT
ATATAGCACT TTTTAAATGA GGATCTAGCT TCACTNTATC ATACAACCAC ATTTAAAATA GCCAGGTCCA TGGTCATTAT
AGGGG

SEQ ID NO:1656: (Length of Sequence = 285 Nucleotides)

GAGNTTAAAT AGAATAGATC AAAGCAGAAT GCAGTGTGTT CATGTCATAG GTTGACTTCT CCAGGAAACC GACCCCAAGT
GGAAGGTTTA CATGCAGGTG GTTTATTAGA GAGTGATGTT GGAAGAACA CCTGTAAGGN AAGAAGGGAG CCTGGGAAGA
GCAGNGGNAG AAGGTGAACT CTGATTCCT TGAACAGAG TCCTAGGCTG AGTGCAATGG ATNCTGTAGA GTTGGGGATG
GACCTTCAGA GATATTCCAA ATAGAGAAAG AATTCCTGTT TACTC

SEQ ID NO:1657: (Length of Sequence = 385 Nucleotides)

GACTTGACTT TGCTTTTTTC CCCCCAAGTA GAACTAATGC TAGCTTCCAG CTTGAAAGTA AAACCTCCAGT GTGGAGTGAA
TTTTGTGCTT AATTATAAAC CTGTAACCAA AACTCAGACA TCTGGTACTG GTCCTTGCA TGAATTTGGT CCCTGTAAAA
CCCCCTTTAA AAGCATATIG CATTIAGTAC AGAGCTCTTT TTGAAATGN AGGCTGGAGA TGTCATTTTT TCACGGTGT
AACTGGTTGT ATCTTATTAG CAAGGAGATT GGGGGTTTTG AGTGTTTGG TGGGTGGGT TCAAAATTC CAGGGGAACC
AGTGGGCAGG CTGCTAGCAA GGCAGTGAGG AAGCTCTTGG CAGCCAAATG GGGTGCAATT CAGGG

SEQ ID NO:1658: (Length of Sequence = 338 Nucleotides)

GATCAGGACC TCTTCTTCT CCAACACTG CCCCAGAGC CGTGTGTAA ACGTTTACCA GCACACTACT GGGCTGTTTC
TCTACCATT GATTGAAATG ATCCTTATGG AAGCACAAT GACTTCACTG TCACTAAATC CAAGGGACAA TTTTATGCT
CTATTTTTCT TCAACTCTCC AGGATGTTG AGAGCTGATC TTTCCCTCCC TCTTGAGCCT CCTCTCTGCT CTGGCTTTTA
GGGGTCTCTG CTGACTTTTC TTCAITTTCT AACACATGIN CTCAGGGGGT CCTCAGCCCT GCAAGGCCNA TGCATGGGT
ACCCAGTCTT GTGGGCTT

SEQ ID NO:1659: (Length of Sequence = 346 Nucleotides)

AGTATGTGAA GTCAATCACT TTTTATATGC AGATAATATG CGACTTATAA TGAAGGTCA CGTTTCAATA GCAACAAAA
AAGCTATAAG TAACAAAGAA TAACAAAAC ATAAATGTAT AGGCTCTACA TAAAGAAAC TATAATTCCA TAAAGGATCT
AAAATAAAC GNGTAAATG AAAGACAAGA TGTGTGTGA GATACGAAGA ATCCATGATT AAGTTAGAGG ATTCTTGGAT
GACAGTAGAG TAGAAAGCAC CAAGAATGAG TCTGTATACC CAGAGAACAC TTACGCTGGT AGGAATCTAT CTCATACAAC
TATTATGGAG CTCTCAAAGT ATACTG

SEQ ID NO:1660: (Length of Sequence = 240 Nucleotides)

GATAGAAATG CCAGCCTTCC ACTTGAATGC ACTGCCATAT TGTCAGCTG CATTCCTTAA GCATCACTTC TTAGAGGCTT
CAAGCTTCTC GGAATGTTT GATGACTTAA AGGGGAAATG AACAGGTTC AATNATGCTT GTCAAGNTTC TTCTTGTA
CCTCTATTTG GACAATTAC AAAAAAAG AAAGCAGCTC ATTTCTAAT TCAGGATATT ATTTCTTTT AAAACTGGTA

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SEQ ID NO:1661: (Length of Sequence = 294 Nucleotides)

AGCACCTCCC CTGAGGGCCA GGCCTTGGAG AACCGGATGA AGCAGCTCTC CCTACAGTGC TCAAAGGGAA GAGATGGAAT
 TATTGCTGAC ATAAAAATGG TGCAGATTGG CTGATTCAATC CTTGGGCCCTG GCCGATATGC ATATCAACAT TTATACATGG
 AACTGTGAGA ACATTKTGCC AATAATCATT TAATATATGC CAAATCTTAC ACGKCTACTC TAAACTGCTC TAATGAAGTT
 TCAGTGACCT TGAGGGCTAA AGATTNTTCT TCTGGTGTA GAGCTCTTTG GGCT

SEQ ID NO:1662: (Length of Sequence = 291 Nucleotides)

GATTTTCATC AGGCAATNA AAGTAACCAC AGAAACAATT CAGTAATACT ACTAAGAGAG ATTAACCTCC CACTGGCCTT
 GGAATAGCTA AGTGCAATGA TTTTGTGTGA GTGTGAGTT TTTTCTCTC ATTGATATTT TACGTATTTC TGGGGTAAAT
 GTATTTTWA CATGCATTGA ATGTGTAATG ATCAAGTCAG GGTATTTGGG GCCTCCATCA CCTGAGTGT TTATCATTC
 TATGTGTGGT AACATTCCAA GCCCTCTCTT CTAGCTTTGG AATATATAGT G

SEQ ID NO:1663: (Length of Sequence = 345 Nucleotides)

GGCAGTGGGA CTCTCTGTGG ATAGACTGAT TCTGTTTAG AAACAACAGC AAAAGAAGA AGGCAGGAAA GAACTCCCC
 GGCTCGGAGG AATGTCTCTG TGATCCCCAT TCTTGATGA GGGAGTGAAA AGGGCCTGG NCTTCGCCCG CTGCTCTCT
 GACAGAAACA GTAAGTNACA CCAGGACAGA AGGCAGGAGC CCTGAGAACT CACGGCGCTC TGCATGGTCT CCAGCCNNNC
 ACCCGTCTCC AGCCACCCCT GGAGCGGCCG TGGGGAGGCG GCAGAGGGGG CTTTTCGGAG GGCCCACTAT TNCACACGT
 CTTTCTTTNG ACACCCAGAA AACTT

SEQ ID NO:1664: (Length of Sequence = 334 Nucleotides)

GTAAATAAGA AAGTGAAATA ATTCTATATA TGTAAAGTTG ATAGAAGATA ATCATCAGGG TCAGAATTAA GAGGTCTTGT
 GGTTTAGGAA GCATAAAATT ATGTAACFTA TTGTTTATTT CACTCAGAAA ATAAAAGTAT TAATGAAAGG AGTTAGAGAT
 GAACAGATTG ATACAAACTG TTCTATGGTT TACAGCTTAA AAAATAAAGG TACATTTAAT GCTATGCATT TTGAGAAATA
 TGTCTTTTAT GCINTTCCCT TTTACATATG TATCINTTTG TATTTAAGGT CAAAATAGAT TGACATTACT AATTACTTCA
 CTATTAATAA TTAA

SEQ ID NO:1665: (Length of Sequence = 310 Nucleotides)

TGTACINCTA TGAAGCATCC CTTCCACATC AGATCAAGA CATCTTAAAG CCAGAAATAA TGGAGGAGAT TGTGATGGAA
 ACACGCCAGA GGCTTTTGGG ACAGGAGGGA TAAGGAGGTG CTCCAGAAGC ACGGGACTNT GGACCTTGCA GGAGTGAAGA
 CTGTRATGTG TGGTCCCAT ATGTGGCTCA GCAAAGACTC GAGAGATCAT CCTTTGTCT GCATTGACGG CCTGTGAGG
 GCCTCCAGCC CACAGSCCTG CTTTCTCTG TCCTAACACC AAGCCTGGGT GGCAGATGAA CAGTGCTTCC

SEQ ID NO:1666: (Length of Sequence = 352 Nucleotides)

TTTTTTTTTA CATAAAAGT TTGGATTTTT ATTGAAATCT TGTAGGTAT CAAACAAATT CTGCTTCTT CAGATAAAAA
 TATTCTCTCA GATGTCTCCA GATAACTGCT AAGTCTAAAT TGGTCTTCA ATGTCTTATT TTTATTGTCC TCGTGAAGT
 TTCATATACA GTTAAGATGT TCCCAAAAGG ATTTTATCG TGTAAGGAG CGTACATGAC GACCTCTACC ACTGCCTCCA
 CTAACAAACT TTCCTCTGA GCCTCCACTG CCGCTATTTG CACTAGCCCA GGAAGGTCC AAGTCCCCCA CGACCTCTAG
 AAGCACGTT CCGAGGACT TTGGCGGTAA CC

SEQ ID NO:1667: (Length of Sequence = 287 Nucleotides)

GACAATNATG CCGCTGCCCA CATTTTGGTC CATCTTTTT TTTATTATGC TTCTCTTNT TGGACTGGAT AGCCAGGGAT
 GTTTCANCTT CTCGCTGTC AAGTACGTAC CCTGACCTA CAACAAACA TACGTNTACC CCAACTGGGC CATTGGGCTG

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GGCTGGAGCC TGGCCCTTIN CTCCATGCTC TTNGNTCCCT TGGTCATCGT CATCCGGCCT CTGCCAGACT GAGGGGGCCG
TTCCTTTGTG AGAGTCAAGT ACCTGCTGAC CCCAAGGGAA CCCAACC

SEQ ID NO:1668: (Length of Sequence = 300 Nucleotides)

CCAGACAAAT ACCAAGTTTA TTTCACAAAC ACTAGGAAGA TGGGTTGAGG GTGGAGGTGG GGGACACAGG TGCGCANTGC
ACAGAGTCAG CAGCAGCAGC CTGNTCCCG CACTGAGGAC TCGGCCTGGA CTGCAGTGCC TCCAAATCAA CACGCAGCAA
GAGGGGAGTIN CAGNGAGGGC CCTNAACACC AAGCCTCTGA AAGGCTAAGG GACACAGCTC CATCTGTCCC AGGAAAACCA
GCAATAAATA AAAGTNNGGC ACGGCCCCAC CCACACATAT CATCTAGTCA CCCATCTTCA

SEQ ID NO:1669: (Length of Sequence = 334 Nucleotides)

TTTTAATGAC AGATTTTCCT AAAAGAAACC ACTATAACAT CTGTCCAAGT ACTCCAGAGA AAACAAAAA TACATAAAGA
TTAAAAGTCT ATTACTTTAA CAGCACATTG CCAACACCG ACAACTAGGA TAAATGCCAA GAAACCTTAA AAAATAACTT
TAAAAGATGC AACGTTCAAG CCATTCAAAC GCGTAGGTTC CACAAACAAC AGGNNAACAA GTCCAAGAGC AGTTCTACTT
GTGCATGATG GTAACTCAGA CTGTACTTCA TCAAAGTTCA TTCAGGTGTT TCATAGGCGT CTGAGCAGAG TTTTGTTTTT
TTCTTTTCCTT GCTT

SEQ ID NO:1670: (Length of Sequence = 287 Nucleotides)

GATAAAAGAG AACACGCGAA GTTTCAGAG AAAAAGTGA GGTCTTAATA ATINTTGGC AACTTGACAG CAGAACAGGG
TAAANTGAG TTAGCTACAA AGGCTCATCA GAAAATGGCA ATAGATTCCA GAGAGATTTA ATAACACTT ACAAACTCTG
CTATAGGTGA CAAATCTGAC CATGATAAAA GCACCGTAA TGATATAGGT AACACTGNGC ATATGAAAAC TCAGACTGTG
CACTAGATAA AAAGGAANCC CAGCATACAG TGTTACCACA TGTAAT

SEQ ID NO:1671: (Length of Sequence = 187 Nucleotides)

GATAAAAGAG AACACGCGAA GTTTCAGAG AAAAAGTGA GGTCTTAATA ATTTTKGGC AACTTGACAG CAGAACAGGG
TAAANWTRAG TTAGCTACAA AGGCTCATCA GAAAATSGCA ATAGATTCCA GAGAGATTTA ATAACACTT ACAAACTCTG
CTATAGGGTG GACAAATCTG GCCCATG

SEQ ID NO:1672: (Length of Sequence = 329 Nucleotides)

ACATCACAAAC ATCGTTTATT ATGTGAATTT TTACAAATAC AAACAAAAA TACAGAAATG CAATATATGA ATACAGCTAA
ATGCAGAATG GTGACTTTTT TCTCTCAAG AGGCCATGAT TCCATTCTCT AGTAAATAA AGAGACTGCA TATAGGTAGA
AACAGGTTGG TCATTAGCTT CACAATTTG CCTAGAAATG ATCTATAAAT GCATTTCCCC CCTGTCTACT TACCCTAAAG
TGTA AAAAGG GAGTTAAAGG AAAGTTTCCT TGTTGGTTCC TACCATATGA AAGATGCTAT ATTCTATTTT AGCAGTGCCA
ATATATGGG

SEQ ID NO:1673: (Length of Sequence = 386 Nucleotides)

CTCCCTACTG TGATTCTCAT CAAGCTGGAA GGGINGTGAG AAAGCACTTC AGTTTCTTCC CTGGATATG AACCTGAGCT
CTCTGATGAG GTGGTTTAGA AGTGGCCCTG GGAGAAGCCC ACTTCTTGGT CACAAGATAC TGCAATCTCC TGGCAGATGA
ACCAGCTGCT TCCAGCATCC TCTGTGTGGG TCCTCAAGCC TAGCTGCTCT ACGTGTGTCG TGCACAGTGG CATCATGCG
GGAAGTAGAA AAACCTCTGA TGCTGTCCC CACCGGCTT AATCACAGTG AAGTCAGATT ATCTGGGNCCT GGGACCCTAC
CATCATTTTT TTAAAGAAT TGCAGGGGCC AGGGGTGGC GGGCTTCAGA GCTTCTTAGC AATTTT

SEQ ID NO:1674: (Length of Sequence = 377 Nucleotides)

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CTGAAATTTG GCAAGAAGGG GCAAAAACGT GACTATTAAT GATTGATAAG CACCAGTGAA GAAGTTCTAA CTTTTCAGCAT
 GCTGCACAGA AACTGGTATA ACATGCCCTC AGTATACTAA CACTCATATG CTCAGTTTTC TTTTGTTTTG GCAGTTGACA
 AGAAGTTAAT TTGCTTTAGT AAAAATCCCT CATTCCAGCC TTCTATATA AATAGCTCTT TCTTGCTGTT TTAATGTGGT
 GCACACTATA GCTTCACAAA CCTGTTATTC CAGTGTATC TGCAGTGTG TAACTAAAGT TACTGGCTTG GGTCTTATTT
 GCACAGTTTT TGCNCTTGT TTGCTTCTTG CATCTGGATT AACTAGGAAT ATTTCTC

SEQ ID NO:1675: (Length of Sequence = 381 Nucleotides)

CAGAAGTCAA TCAGCTAGC ACCCAGTTCT CAAAGACCTC ACATGCTAGG GAAGGTGCGG AGGCAGAGTT GTGGTTCAGA
 AGCAGTTACA GGTCTCAAAG CAAGAACAGC AGCCAAAGCT TCCACGCCCT GACGCTGCCT CTGAATGGTA AACCATGGC
 ATATGGTATC CACAGCTAGG CTTTGCTTTT TTCTGAGTGA AGGTAAAGG CATTTGAAAA TAAACCAAAG TTTCACAGAC
 TATGTTTATG GAACAAACAT GGGCCATTTT CAGGGATATA AAAGTCGATG TTCTATGTAG GCCCCATAT GAGTATTTAT
 CTACTTTTTA TTTACTTTAT TTTATGGAAT TTATTGNC AAGGGCTTCA CTCTGTTGCG A

SEQ ID NO:1675: (Length of Sequence = 404 Nucleotides)

CTGTGTGAT TGCTTGAGCC CATCACAGTT TAGCTCTCAC AGCTTTAATT TACTAGCCCA TGAGAAGTCA GCTTCAAAGA
 ACACCATTTC GACTCTCAA GAACATTATC AATGTACATG GATAGCTTCC AACTTCATAA GGTGTTTCTC TCTACCTAGA
 GCAATTAACA TTAATTTGCA GAATAGTGT TATTGAAAC CTTTGTTGAT CTCCAACAAA GTAATAGTGT ATTGATTTCA
 TTCCTACTAT CTCAACTGT ATCATTAGA GGAATTTCTT AGGNAAGTCT ATATGCAGTA AGCAAGTAAG ATCGCAGAAC
 ATCAAAGGGA GGAAGTAAAT CCCAAACTG GNTTTTACCT TCCTTTCCCT TAGGTGAGGG AAAGGAATTT ATGGTTTTAA
 AGCT

SEQ ID NO:1677: (Length of Sequence = 388 Nucleotides)

ATGGACAAC ATGAGCCAGG AGTCTACACA GAGAAGGTTG TGAAGCCAC TAAGCTGCTC TCCAACACAG TCATGCCACG
 TTTTACTGAG CAAGTAGAAG CAGCCGTGGA AGCCCTCAGC TCGGACCCTG CCCAGCCCAT GGATGAGAAT GAGTTTATCG
 ATGCTTCCCG CCTGGTATAT GATGGCATCC GGGACATCAG GAAAGCAGTG CTGATGATAA GGACCCCTGA GGAGTTGAT
 GACTCTGACT TTGAGACAGA AGATTTTGAT GTCAGAAGCA GGACGAGCGT CCAGACAGAA GACGATCAAC TGATAGCTGG
 CCCAGAGTTG CCCCGGGCGA TCATGGCTCA AGCTTCCCCA GGGAGCAAAA AAGCCGGAAG ATTTTCGG

SEQ ID NO:1678: (Length of Sequence = 428 Nucleotides)

TAACTGTGCA AATAATCCAT GAATATATTG TTTTATACA GCAATACAGA TAAGGCTTGC AGCTCTATAG ATCACCTCA
 TCCACTCCTT CACTCCATG CTACACTTAA AAGCCTCACA TGCTCTCTG TCCTCTCCAA AGGCAGCTGC TAGCATCAGC
 GCCCACAGTA GCTTCTTTT GTTTCCTGTT TATAAACCAT ACATTTTCTA TGGCTACACA TACGTGTATT GTTTGATGCT
 TTCTAATAAA ATTGTATCAT AGTGGTACAC ATCTTTCACA CTTTCCINAT TACAGTCAAC ATTTGGNGGA ATACAGAATG
 CAGCAGATCA AGGANCITTT CTCAGTCTTT TCTAACATGN CCCAAATAC AGCCTCACTA TGGGGTCCAT TTAGGNGGCT
 CATTTGTTTT CACTCTACA ACGGTGGC

SEQ ID NO:1679: (Length of Sequence = 256 Nucleotides)

GGTGTCCACA GCCTGCTGCC TGGCCTGGAG CAAATACCTT TGTTAAGTGC TCAGAGGGTA TGGCCCTCA AATCCACCTT
 GCAGTCCCTT GGCTGCAAT AACTCCTC CATCTTTTCA ACTCGCTCCC TGGACCCCTG GTTAACACTT CACTGTAACT
 CCTCAGTGTG ACAAAGCATT TTCATTTGAA TACAAAAGGC AACTGNCAC CANATGGGCA TCCTTGAGCC ATGGTAAACA
 CTGAATTINA GGCTCA

SEQ ID NO:1680: (Length of Sequence = 438 Nucleotides)

TACCACTAGT TCCTTTCCCG CTTTATTTTT TAGCTGCTTT TTGGGTTTTA TACAATGAAC ATGTATTAAT TGTAGAAGAA
AACGATGTCA TCCTTTATGA TAAAATCCAT TTCCATTTTA GCTTTTTTAA AAAAACAAAA AGCTGTGTGT GACAGATGAA
CATCCAAGTA CTGGGCACAC CTCAGCCCT CCTCTTCCA CTGAAGGCCA TTGCCTATTC CTAGAAAGTT CTTTCCCAGG
TATGCAGCTT TCAGTTTCCA CTTCAGAGGC CACAGTGTCT GGGGAACGG ACTGCCCCCA ATACTAAAGG GAGTCAAAT
CTCTTTAATT NCCGCACTTC CTCAGTACCA ACAAGGAAGT CCTTCTTTA GGGCCACTGG ATGGGAACCT NGGGACCCCC
CTTTTGTGAT TGGCAAGCAT TGGGNTCCT AGGGCCTT

SEQ ID NO:1681: (Length of Sequence = 370 Nucleotides)

GTCTGGGAAG GGTACAATGT CGTCCGCGCC TCAGGGGCA TGATTGGACA CACCGACTCG GCTGAGGCTG CCCAGGAAC
CATAAGGGGT GACTTCAGCG TCCACATCAG CAGGAATGTC ATCCACGCCA GCACTCCGT GGAGGGGGCC CAGCGGGAGA
TCCAGCTGTG GTTCCAGAGC AGTGAGCTGG TGAGCTGGGC AGACGGGGGC CAGCACAGCA GCATCCACCC AGCCTGAGGC
TCAAGCTGCC CTTACCACCC CATCCCCAC GCAGGACCAA CTACCTCCGT NAGCAAGAAC CCAAGCCAC ATTNCAAACC
TTGCTTGTC CAAACCACTT ACTTCCCTGT TNACTTTTG CCCANCCCA

SEQ ID NO:1682: (Length of Sequence = 397 Nucleotides)

ATGTAATCCG CTGCACAAA CACACCTTCA CCAACCACAT GGTTTTTAAG TTTGACTGCA CAAACACACT CAATGACCAG
ACCTTGAGA ATGTNACAGT GCAGATGGAG CCCACTGAGG CCTATNAGGT GCTCTGTAC GTGCTGCCC GGAGCTGCC
CTACAACCAG CCGGGACCT GCTACACACT GGTGGCACTG CCCAAGAAG ACCCCACAGC TGTGGCTGC ACATTCAGCT
GCATGATGAA GTTCACTGTC AAGGACTGTG ATCCACCAC TGGGGAGACT GATGACGAG GCTATGAGGA TGAGTATGIN
CTGGGAAGAT CTGGAAGTT TACTGTAGC TTGTTACAT TCCAAAAGGT TCATGGAAC TGAACITCGA GCAGCCT

SEQ ID NO:1683: (Length of Sequence = 396 Nucleotides)

GGCTGCGCAG AGGAGCCGCT CTCGCGCGCC CCACCTCGGC TGGGAGCCCA CGAGGCTGCC GCATCCTGCC CTCGGAACAA
TGGGACTCGG CGCGCGAGGT GCTTGGGCG CGCTGCTCCT GGGGACGCTG CAGGTGCTAG CGCTGCTGGG GGCCGCCCAT
GAAAGCGCAN CATGGCGGCA TCTGCAACA TAGAGAAATC TGGGCTTCCA CACAACCTCA GTGCTAACTC AACAGAGACT
CTCCAACATG TGCTTTCTGA CCATACAAAT GAAACTTCCA ACAGTACTNT NAAACCACCA ACTTCANGTT GCCTCAGACT
CCAAGTATA CAAACGGTCA CCACCATGNN AAACCTTACA AGCGGGCAIT TTAATTNCA ACANCAACCA GGGGAT

SEQ ID NO:1684: (Length of Sequence = 417 Nucleotides)

ATCCAGGGGA GATGCATGTG GAAATGTGGT CCTCTGGGT CAGACCCCTG CACGGGACAT CTGCTTTN AGTGTGCAGA
GTACATGGGG AAGGGGCTGG GGGCACCCT GTGTACCTGG GCCAGTAAG GCATTTGCCG TGATTCAC AACGGGTCA
AAAGCTGGCC TTCAGGTGA CCTAACACCA CCTCATGCC TGCTATAGAC CTTACAAAC GACTTCCACT GCTGAAGCCT
GTAGGCTCTG TTTAGAGACA AGAAGATGGC TGGTAATTTA AGCACCATT TCCCAAGTGC CCACTCTCCT TTGTGCTCTG
TTGGCTTTTG GCCTAAAGCT TNNCCAGAG TTAGGGTGA GGATGTCTGT GGTCTGTGAG ATGCCTTCC CTTCCCCCT
CTGCTTCAAC CGTGGTT

SEQ ID NO:1685: (Length of Sequence = 429 Nucleotides)

GAGCCATGGA GAACCTGAA AGGAAGAATC GCTGCTTNC TCAAGCAAAT CGGTTCCTTG ATGTCTTTTG GTTCTCCTTG
CCTGCNCTG ATGCTTGNC CCTTTAATT GATCAGAGTG CTCTAGAATA ATGGATGGTC TTGGATGATG GATAAATAGG
GACAGGGACA GTTAAATGG GAGCCTTCT TACAACCTTN ATGGGATTTT CCCCCAAG TTCTCTCTC CACTGAAATG
CCACACTAAT GCTGTGGG ATTCATGAGG TGGCCAGACC AATGTGTGT TTTGTGTG TTTTTTTTT AAGCTTCCCT

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TGAGAGAATA AATGGGTAAT GGGAGGAGAA CTATTTTAAAC AAGGGTCCTG GGTTCCTCTT TGCAAACACA GTAGGCTTAA
ACTTTGCCTG CTTTTTAAAA TGGCATTIT

SEQ ID NO:1686: (Length of Sequence = 445 Nucleotides)

TGCTTCATA ATATAACAAC ACTAATACAC TAATAGTAAG ATTAAGTTAG GCAGTCTTCT ACCAAATGTG TAATGGAGAT
TGCTCAAAA TGTGTCCAC ATAATCCACG CTCATCTTGC AAAGCGCTAT TTCAGGCACT TTTTTTTGAG AAAGAGTCTC
ATTCTGTGC CCAGGCTGGA GTGCAGTGGC GCAATCTTGG CTCACAGTAA CCTCTGCCTC CCGGTTTCAA GCGATTCCCC
CGCCTCAGCC TCCCGACTAG CTGGGACCAC AGGCACGNAC CACCACGNCC GGCTCACCTT TGTATTTTAA AGTAGAGATG
GGGGCCTCAC CATATTGGGT CAGGCTGGGT CTTCAATCTN CCTGGACCTC ATGNTCCACC CGCCTTGGGC CTNCCAAAAG
TGCTTGGGGA TTANAGGGAA TNGGCCACC GGGCTTGGG CCAAT

SEQ ID NO:1687: (Length of Sequence = 170 Nucleotides)

AAAAACCAA TAAAGCAATA ACTTTAAAGA CCTCAGACAC ACACAGTATA AACACCTGGG TAAGGTTTTN TCCGTGTCCA
TGTTGACACC GGAACCTACG TTAAAGTGCA AGTTTGTITT TGTGTCCTT TGTGCAGITT CACTCACATG TAAACAAGTC
ACTTGGCTAT

SEQ ID NO:1688: (Length of Sequence = 386 Nucleotides)

AATGTGATTT GATGTTAACA CTAGAGAATG ATGACTGTAG AACATTTGAG CAAGTAAAAT AGTAAAGCAC ATAGTGAGTG
TATGTCCATC TAACGGTAC ATTGATAATT TAGTTTGGGC ACATAAAAGG AATATTTATA TGGCTTCCCA AATGCAGAGT
TACATCTTAT TCGTGTATTT CTCGTAGTAT TTATATCCCG TCCTCTTTT TCATTCTTAA AAATAAATGA ATTTTCAGTG
TTGGCACATA TGAGGCTTAA ATATAAGGAG CATAACACTT GCATTCTAAT TTTTGCATAT ATTGTAATG TGTCTGGTAT
TTACAGCAA ATACTGTGTA TCCTTTATGG GTAAACAAAG TGACATTGCA TGCATGTAAT GTGATG

SEQ ID NO:1689: (Length of Sequence = 400 Nucleotides)

CTTCTGTGG ATCAGCGTAT TCCTAGATTG GGAATTCAAA TTAATGAAAA TTCACATATG AAAGGAAAAT CCATGTCTAT
TTCTGGAGAG GACCTCAGTC CTGGGCTTTT CCCTGGCAIT GCTACCTGGG TGGGTGCTCA CCCTCAGGT GCTGGTGTG
GAAGGCAGGA GGAGGAACCT GAAATCCTGC CGATTAGGC TAATTAACAG GGTTTAGGTG CCTAATTATC ATGACTCAGC
CCGGGACTTA TGGTTAGCCG TGCAGGCCAG GTGAGTCTCT TATGGACTTC CTCTCAGACT GCTCTTTCTC ATTTTGTCTT
GATGAGATAT TGACAGTCAT GTCCACCCGC TTCTCATCC ATTCCCGTC TTGGGCCCTT GGAAGTACG GGGGCCTCTG

SEQ ID NO:1690: (Length of Sequence = 337 Nucleotides)

AGINATATAC CTTTAAAAGT AACTAATGCA ACTGCCAAAN AGGGACAGTG TCAATATCAT TGINTTCATT AGAAGGACGG
CTGCCCCACA CTGTNAGAAC ACTGCTGTTC CTAACAGTAG TTTACTTTNA GAGGGATGTA AGAATTAGTT TNACCTTAAT
TCCAGATGIG CATGCCCTCA AAGAAAAATC CCATTCTCCT TCCTTTTGGG GAGCATTITT GGTGGCACCA AGGCTGGTGT
GGGGTAGTGG AGAGAGCACT GAGCTTAGAG TCACAACCAG ATGAAACTGC TCTGGTCTTC ACTAGCTGTG TGACTTGGGC
AAGCAGCTTG CAGTCTC

SEQ ID NO:1691: (Length of Sequence = 372 Nucleotides)

TCAATCTCCC AAGTGCTGG GATTATAGGC GTGAGCACGT GCGCCAGCC TTAATTTT TTAATCAGA TTTTAAATC
AACTAAACA GCTATGAGTT AAGTACCTGC CCTGCAAAA TTTTAGAAA AAGTTTTAGG ATTATGAAAT TAAGAATTAT
TTTCTTAAAC TGAACAGTT CTAATAATTA TCTGATACTT CTCTAACAG TGAGTGATCT CATGTAACCC CAGTTGTAT

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CTTAAAGGCT GCAGCATAGA ATTGAGCTGT ATAACAGTGT TAGAACTGTC AAGTGATAAT CACAGAACAG TTTGTATCGG
TTTTATAATT CTCATGTCIT GATCAGATCT GAAGGAATA GGCATACCCCT CC

SEQ ID NO:1692: (Length of Sequence = 360 Nucleotides)

TTTTTTTGGC AAAAATAGTA TATATTTATT ATGTACAACA TGTATTTTGA GATATGTATA CATGTGTGAA TGTCTAAATT
GAGCTAACAA ATACATTATC TCACATACCA TGTTTTTTTG TGGTGACAAC ATTCAACAAT ATAGACCATT TCACAAATTT
GCATGTTATC TTTGTGCAGG GGCTATGCCA ATCTTCTCTG TATTTTINCA ATCTTGGTGT ATGTGCTGCT GAAGCACACA
CCCTAATTCC TTTCAATTTAA GGNCTAGTT AACCTTCTC TTAAGTATAA CCATGTATTT TGTTAAGCAA TATCTTTTTA
TTACAAAAAT GCCATTTTTT TCTGGNTAGG AAAATTGATT

SEQ ID NO:1693: (Length of Sequence = 378 Nucleotides)

GACAAAAAGA GGGGTCTGGC TGCGATGIG GAAATTTGTT TGTGGACTT CACCGTACT CTGACAAGCA CAACTGTCCG
TATGATTACA AAGCAGAAGC TGCAGCAAAA ATCAGAAAAG AGAATCCAGT TGTGTGGCT GAAAAAATTC AGAGAATATA
AATTACTTCT TGTGAAGAGA CTGAACTTT GTTTTTATTT TAATATATCG TAGGAAAACA TTAAAGAGCA GATGCATGGC
CATTTTNCIT TGATGTTCTC CAGAGTTTFA CATTACACTT GTCTGTCTTA TAATTGATAT TTTAGGGATG TTTGGGTGTT
TGTTACAGGC AGAATGGAT AGATACAGCC CTACAAATGT ATATGCCCTC CCCTGAAA

SEQ ID NO:1694: (Length of Sequence = 362 Nucleotides)

AATGCACTTT ATTGGCTCCC AGGGAGTGGG ATGCAGGATC AGAGTGGACA CGCGCAGGGG GCTGGTGTGG GGAGCAAAGC
NCCGGGCTG CCCCAGACCC TGGTTCCCT GAGGACCAAC GTGAATGGGG GCCCCACTGG AAAGATGCTT GGGGCTGCAG
AGCGGATGGA ATGCAGGCCC AGGTGCTGG GTGGTCCCT CAGCTCCTGG CAGGGTTGAC GGGTGGTGGC CGCTGGGCTC
TGCCAGCCGA TGGTCCNCTG GCACCTGATC CTGTCTTCCA GCTTCACTTC CGGGCCTGCT CGTAGTTGTC AGTGAACCAA
GCACAGGTCT CCTTGACCGN CTGCTTTNAA GGGTGTGAAN CG

SEQ ID NO:1695: (Length of Sequence = 411 Nucleotides)

TTAATACAAG GGGTTTGAAC TGGACATCCT AATGATGCAA TTACGTCATC ACCAGCTGA TTCGGGTGG TTGCAAACCT
CATCGTGTCT GTCTGAGAG GCTCCACAAT GCCACCCGC ATGCCATTTC TGTAGTCTTC AGGGTCAGCT GTTGATAAAG
GGGAGGCTT GCGTTATGG CCTAGATTTT GCTGCAGATT AAATCCTTG AGGATTCTCT TCTCTTTTAC CATTTTNCIT
CGTCTCTCA CTCTCTCTT CTCTCTCTAG CTTTTTAATT CATGAATATT TTCGTGCTG TCTCTCTCTC TCTCTGTGT
TCTCCAGCC CTGTCTCGG AGACGGTGT TTCTCCCTT GCCATTATC TTTCAACTC CCAGGGCTAC CCATTTCAAT
GGTGGTCTG T

SEQ ID NO:1696: (Length of Sequence = 280 Nucleotides)

CTTGTGATG TTTTACGCT TTACAAAAG CAGATTGGT ATTCAGAAAA GCCTGCAAAT ACAACATTGC TTAAGAGAAC
CTGTAAACAC GTTTGGAATA CAATGCAACA CAAGTCAGCA AGGACAGGG TAGGTCCAAA GGAGCCAGCT AGGGGGAAG
GTGACAGAAA AGGAGAGGGA AGGATGNGA CAGACATCAC CTGTGGTCTC TAAGGGGGCC NIGTGTTTAA TTTATAAGGT
TTTCTNCCCA CAGGAGTCT NNTGTGATCT ATCGTTTCA

SEQ ID NO:1697: (Length of Sequence = 418 Nucleotides)

ATTTCTTCAT TTACAAGAG AATATATTTG GTTCTCTCT TAAGACTCTG AGATTCAAA TCAGCAGCTC TAAAAATAA
AGGAGCAGTT TGGCTTCCG AAGGAAGAG AGGCAACACT CGGACCTGTT TCTGTACAA CAAGAAAACA TCGCTGGGGC
CCGCTGAGG CTGGAGTGG GGTGGAGCT GTCTTTTGA GGATGCCACC CCCACCCAT CCTCTGTCA GGCCTCGG

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GTACCCAGCA GCTTNGTGGG TGAGTATTCC ACCTGCTTAC ACACCACTGA AGCCACAGCC AGCCAGTAAC TAAGGGGCAA
GAAAGAGCAT TGTCACAGCT GGCTCTTNG GGGGGTCCCC CATNGGCCA CAAAGGCCCTC ACCCCCCACC CCATCCCCGT
AACCAGAAAC CACCTTGA

SEQ ID NO:1698: (Length of Sequence = 376 Nucleotides)

ATTTTATG TTTATTACT TATTTTTC CCTTTTTC AGAGATGGG TCTCACAGTG TTGCCAGGC TGGACTTGAA
CTCCACTCC TGGGCTCCAG CAGTCTCCT GCCTCACCTT TCCAAGTAGC TGGGGCTATA AGTACACACC ACCATGCCCA
GCAATATTTT AATTTCTGTA ATGTGTCATT TAGCCAGTGA TTGTTGTATT ATAATAGAAT CACAGAAATG GAGGGACTCC
TAGAGGTAAT CAAATCTGGT GGTTTTAAAG CCTTTTATTC CCTCTAAAGG GATAGTAAAA CCATTAAAAA TATAATTTTT
CCCAATTATG TAAGCCAGRG AAAGCTGACC TYCTGGTTTA GAGAGGAACA CAGATG

SEQ ID NO:1699: (Length of Sequence = 365 Nucleotides)

GGTACATGTC CACAACGNG GNGTTGTGTA CATATGTATA CATATGCCAT GTTAGTGTGC TGCACCCATT AACTCGTCAT
TTAGCATTAG GTATATCTCC TAATGCTATC CCTCCTCCT CCCCCACGC CACAACAGTC CCTGGTGTGT GATGTTCCCC
TTCTGTGTC CATGTGTTCT CATTATTCAA TTCCACCTA CGAGTGAGAA CATGCTGTGT TTGGTTTTTT GTCTTTCGA
TAGCCAGATG CAGCTACTCT TAATGTGCAT ATTTTCATCC TAGAACATTG GAGAGTTCCT GTAAAAGCCT TGTGTTCCAG
GAGGAGGAG ATCCTGACCC TTCTGCTGAT GGCAGCAGTC AGGGG

SEQ ID NO:1700: (Length of Sequence = 397 Nucleotides)

AAAGGCAGTC AAGCAGGAGT TAAACAATAT GGACCTAAT CTCTTATAT GAGAACATTA TTAAATTCCA TTGCTCATGG
AAATAGACTT ATTCTTTATG ATTGGGAAAT TCTGGCTAAA TCTTCCCTTT CACCTCTCA GTATCTCCAG TTTAAAACT
GGTGSATTGA TGGGGTACAA GAACAGGTAC GAAAAATCA GGCTACTAAT CCTGTGCTT ATATAGATGA AGACCAATTG
CTAGGAAGAG GTCCAACTG GGACCTATT AACCAACAT CAGTAATGAA AATGAGGCTA TTGAACAACT ATAAGGCTA
TTTGCTCAG GGGCCTGGGA AAACATTGAG GACCAGGGA ACCTCATGCC CTCTTTTATG GTTCAATCAG ACAAGCT

SEQ ID NO:1701: (Length of Sequence = 245 Nucleotides)

GTCTAGGAGG AGGCTTCTG CACAGAGCCC CTGAAGAACA CAGGCAGAGG CCCCCACTT GGCTTCTACC ACGTCCAGAA
CATCGCAGTG GAGGTGACCA AGTCTTCAT TGAGTACATC AAGAGCCAGC CCATTGTTTT CNAGGTCTTT GGCCACTACC
AGCAGACCC GTTCCGNCCT CTCTGCAAGG ACGTCTCAG CCCCCNAGG CCTCGGCGCC GTCATTTCCT TCGGGTCATG
CCACT

SEQ ID NO:1702: (Length of Sequence = 349 Nucleotides)

ATCTGTGTC AGCACAGITT TATTTGCTGT GGAATCCATG AGAGCCGGAA GCATCGTTGG GGCCGTGGCT AGCAGAGCTC
ATGGTGACCA GTCTGGGCC TGACCAATGG GTGATTACAT TTAAAAACCA AAACAAAACA AAACAAAATA CCAAGAACAG
ATCATTGCC ATGGACATCA GTAATCTATT GGTAAATGGT AAAATTTCAT GAAAAATTCC CCTAAACCAT AACAAAACT
GTCTCTTA CCCCAAAAGT GCTGGAGGGA AAGATGGTTG CATGGCTTTG ACCTCTCTTT GAACTTGAAA TGCTACCTTC
CTACCCGGAA AATGCGGCAC ACTATACTT

SEQ ID NO:1703: (Length of Sequence = 419 Nucleotides)

GAGCCCTGC CTCCAGAAG CTCACATCCT CTACTCATG GCAGACAAAT AAACGTGAAT TACACTGCAG GGAGGTAAGT
GTGGCAGCAG ATGTAGTATG CAGTGACAG GTGGCCATGG TTGCTAGGGC AAGGAGGGCT TCCTAGCATG GCGGTTATTT
GACCAGAGGC TGGCGGTGCC TTTTGCTAGC AGTGTGATTG TATCTGAGC CAGGACAGA TACCTCTNG AGCCTTGGTT

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TCCTCATCTG TAAAGTGGTT AAAGACTGAN TAAAGCAAAA TATGTGCAAA CAGTCTGTGA ATGGGGAAGT AACAGATGTT
GCTTTCTATT ATGTTCTCTC CTAGCCATGA ATATCAATTA TTTCAAGAAAT GAAAAGGGAT CCTGCACCCA ATTTCAAATC
AAGCAAGTTC ACCTAGAGG

SEQ ID NO:1704: (Length of Sequence = 372 Nucleotides)

GCTTCCCGAA GGTCTTGGAC GAGCGCTCTA GCTCTGTGGG AAGGTTTTGG GCTCTCTGGC TCGGATTTTG CAATTTCTCC
CTGGGGACTG CCGTGGAGCC GCATCCACTG TGGATTATAA TTGCAACATG ACGCTGGAAG AGCTCGTGGC GTGCGACAAC
GCGGCGCAGA AGATGCAGAC GGTGACCGCC GCGGTGGAGG AGCTTTTGGT GGCCGCTCAG CGCCAGGNTC GCCTCACAGT
GGGGGTGTAC GAGTCGGCCA AGTTGATGAA TGTGGACCA GACAGCGTGG TCCTCTGCCT CTGGCCATT AACGAGGAGG
AGGAGGATGA CATCGCCCTG CAAATCCACT TCAACGTCA TCCAGTCCT TC

SEQ ID NO:1705: (Length of Sequence = 426 Nucleotides)

GATGCCITAT TTAGTCCATT TGGTGAGGTA ATGTTTTCTT GGATGTCTT GATGCTTGTA GACATTTGTT GATACCTGGG
CATTAAAGNG TTAGGTATTT ATTCCAGTCT TCACAGTATA GGCTTGTITT TAGCCATCCT TTTTGAGAGG ACTTTCCAAG
AATTCAAAGG GGATTGAGTG TTGTGACCTA AGCCTATGGT CACTGCAGCC ATTTACAGCAC TAGAGAGTGC CCTAAGCCCC
GGAATGCTGC AACTCTTACA GACTCCTTGA TACACAGCTT TGGTAGATT TGGGAAAATA AGGGAGAATT CCCTGGGGTT
ACCAGGTAAA AAGTCTCTCC CACTCCCTC TCTTCTGGC AAAGGAAGTC AGTCTCTGCA CCAGGCTGCC TGGAGTTTGG
GGGAGGGATA AGGCGGTCAC TCTAAT

SEQ ID NO:1706: (Length of Sequence = 412 Nucleotides)

ATTTTATTC CTTACATCGA AGAAAATGTT AAAGAGTATC TNCAGACACA TTGGGAAGAA GAGGAGTGCC AGCAGSATGT
CAGTCTTTTG AGGAAACAGG CTGAAGAGGA CGCCACCTG GATGGGGCTG TTCTATCCC TGCAGCATCT GGAATGGAG
TGATGATCT GCAACAGATG ATCCAGGCCG TGGTAGATAA TGTGTCTGG CAGATGTCCC TGGNTCGAAA GACCACTGCA
CTCAAACAGC TGCAGGCCCA CATGTGGAGG GCGGCATCA CAGCTGGCG CATGAAAGCA GAGTTCTTTG CAGATGTAGT
TCCAGCAGTC AGGAAGTGA GAGAGCCCC AATNAAGGTG TACATCTATT CCTCAGGGAG TGTGAGGCA CAGAACTGT
TATTCGGGCA TT

SEQ ID NO:1707: (Length of Sequence = 434 Nucleotides)

GTGTCTCTG AAAAAAAAAA AAGATTCTAG GCATGGTGGT GTGTTGACTG TAGTCCAGC TACTCCAGAG GCTGAGGTGG
GAGGATTGGT TGAGCCTGGG TGGATGAGG TCAGTGACC CATGATCATG CATGGGAGAC AGAGCAAGAC CTGTCTCAA
GAAAGGAAAG AAATCACTGG CTCTCTGTG AAAAAATGAT TGTAAAGAGT AATTGAAAAA ATAAATACAA GTAATAAAT
AATCTTTCAT TTAAGAAATA CTACCAAAT TAACATGGAG ATCTAGCAA AAGTCAAAAG CAGCTNGCG TGGTGGCTCA
CACCTGTAAT CCTACACCT TGGGGAGGCT GAGGCGGGAG GNTCGCTGA GGTCAAGAGT TCGAGACCAG CCTGGCCAAC
AGAGCCAAGT CTCTACTTAA ATACAGATTA GCTT

SEQ ID NO:1708: (Length of Sequence = 440 Nucleotides)

GGACCAGGAC TCCAGCACCT TCCCTGGCTG CATCAACAAT GCCACACTCT TTCAAGATGA GATAAACTGG CGCCTCAAGG
AGGGACTGGT GGAAGGCGAG GATTATGTG TGCTCCAGC AGGTGCTTGG CATTACCTGG TCAGCTGGTA TGGTCTAGAG
CATGGCCAGC CACCCATTGA ACGCAAGGTC ATAGAGCTGC CCAACATCCA GAAGGTGAA GTGTACCCAG TAGAACTGCT
GCTTGTCGG CACAATGATT TGGGCAAATC TCACACTGTT CAGTTCAGCC ATACCGATT TATTGGCTA GTATTGCGCA
CAGCTCGGGA GCGGTTTCTG GTGGAGCCCC AGGAGACAC TCGCTTTGG GCCAAGAACT CAGAAGGCTC TTTGGATAGG
TTGATATGAC ACACACATCA CGTTTCTGA TGCGCCCTT

SEQ ID NO:1709: (Length of Sequence = 404 Nucleotides)

TTTGTCTTAT GTAGAATTGC CTATAGTAAG AAAACCCAGT AGAGAAAGTG GTTTINAGAC CATTGGGCAG CTGCTTTGGA
CACCTGGAGC CATTTCTTTT ACAGATGAAG ATGCATTGIG TCATTGTCTC AGGATCCTCG TCCTGTTGCT TCTCTGGCCA
CAAATTGTTT TTTACCAAAG ATGATTTTAT TTCCTGTCTT TTGAAAATCA TTCCTTATAG GTAGAATATG AAGATTCTCT
GAAATGATTC CAAAATGCCA AACTCAAACA CTATTGTCCG ATTTCTTTAC TTGCAACAAG AGAGTAGAAG GGACAGTATT
TGTTTTGTA TGTGGGGGCG TTCATCAGGG AGAGAATTIG AGATAAGTAG GAATAGCAAA TAGGAATAGT GAAATAACCT
AGAT

SEQ ID NO:1710: (Length of Sequence = 187 Nucleotides)

GGTGATCTGC CGACCAGAGG CCTTAACTC TGGTGTGAG TACTACTGGG ACCAGCTGAA CGAGACGGTC TTCCTGTCC
ATCCAACAG CAGGAGCAGC GAGCGSCTGG ACCAGGCAGA GCACATGGAG GACAGCAGAG ACATGGGCTG ATGAATGCAT
TGGGCTTCAG CGACCTGCA CTCAGTG

SEQ ID NO:1711: (Length of Sequence = 313 Nucleotides)

AGGGGCATGT NATCATTINA ATGATGINAT CTTTGGTGT TCCCTCATTG GCTGTAGACT ATCCCTCTC CTCCCACCAC
AATGTTTCTA TGATGAGTTA CAAACAGAAA GGAAATCACA TTTTCATACT AAAACAAAA TGATCAGAGC CTGTATTCTT
CCACTAGAAA CTACACGTAC AGTTAAGAGT CCACATGCAA CACCTTAAAT CACAGACTGA GGACCTCACA TTCGTACCTG
GGAGTCTCCT CCCCTTCCCC AGCCTTGGGC TAGCTTTGGC CTAGGCTCAG GTAATACTGA CCCCCACAGG CGT

SEQ ID NO:1712: (Length of Sequence = 202 Nucleotides)

TTTGTGGTGT TTCTCTTTA TTGTGTGCTT CTACCTTCC CCCACAATTT CAGTCCCTTC CAACACCCCA AAAAGAAGGA
GTGAAAGGAA GGGATTGCTG GGGTCTGAG CCCTTGGCAG TCAGAAGGAC AGAACCAAC ATCACTGGAT GTGACACAGC
TGCATCAAGA AGTCTACAGC AGTATGGGAA GCGGCAGAGA AG

SEQ ID NO:1713: (Length of Sequence = 253 Nucleotides)

TGATTTCANIG GGTCTGGGAT AGAGTCTGGT ATTCTGCATT TCTGACTAGC CTCCAGGTGA TACTGATTCT CCTCATCTAG
GGACCTCGCT TTGAGTAGCA AGTGTTTAGG CCACTTACTA GCAGGAATA AGCACAGTAT CCTACAACAG CAAATGTCTT
TCCAACAAGA AAGACGAGAG CAAATNCTGA TGCCACATCT GCACTGCCTC AGAAAATAAA GAAGGGATGA GGAGCCCCC
AGTGGCACTC TGT

SEQ ID NO:1714: (Length of Sequence = 299 Nucleotides)

GGTGCAGCTG CTTTGAAAAA TGACTTGGCA GCACCTCAA ATGTTAAACA GAGTTACCAC ATGACCCAGT AATTTACAC
TTAAGGATAT ACTCAAGAGA AATGAAACT AAAACATAC GGCTACCCAA AAACCTACAT AAGANTGTTT ACAGCAACAT
TATTCATAAT AACCAAAATA TGGNAACAAC CACAATGTCC ATCAATTGAT AAMTGGGTAA AGTCTGGCAA ACTCACAGRA
TGGATATTA TTTGGTGGTA AAAAGGAGTA AAGAACTSN ATGTACTACA ACATGGGTG

SEQ ID NO:1715: (Length of Sequence = 371 Nucleotides)

TTTTTTTTTAC CGGGCGGTTC CTGAGTTTAT TTGGGGCACA CCGGACGAG GCGCCTGCAC CTAGAAGAAG GTGTGGGGC
TCTTGGTGGT GAAGCGTGGC TTGTGCTGAC GGCGAGGAC CCGGTGGGGC AGCGGAACT TGATCTTGA GTCTGGAAC
TGCTTGACAG CGGGCCGGG GCACTTGCTG GCGCGATCT CTTCCACCTT CATGATCTGA ATGGAGTGGG CTCGGGCGCG

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GTGCGGGCA CCCATGTC TC GTAGCACTG GGTGACAGG CCTGCGGTGG TCAAGTCCCG GTATTCCCGG TACATGTTGT
GGGTGCCGCT CCGGGAGTCA TAGCGCAGCA AGATCCCGAA GTTCTTCAAC C

SEQ ID NO:1716: (Length of Sequence = 265 Nucleotides)

GTGCAGAATC TGCTCCTGGA CACCCACAGG GGGCTGCTGT ATGCGGCTC ANANTCGGGC GTAGTCCAGG NECCCATGGC
CAACTGCAGC CTGTACAGGA GCTGTGGGA CTGCTCTC GCCCGAACC CCTACTGTGC TTKGAGCGC TCCAGCTGCA
AGCACGTCAG CCTCTACCAG CTCAGCTTG CCACCAGGGC GTGGATCCAG GACATTGAGG GAGCCAGCGN CAAGGACCTT
TNCAGCGCT CTTCGGTTGT TTCCC

SEQ ID NO:1717: (Length of Sequence = 350 Nucleotides)

CAGCCCCGC AGCCCTCTGG CCCCTCCAT CTCTGTCCG TTCCACCCA CCCCCCTCT CGGCCGAGC CTTTTCCCG
TGGGTGTCAG GNTCACTCC ACTAGGGACT CTGCGTAAT TACCTGAGCG ACCAGGACTA CATTTCCAA GAGGCTCTGC
TCCAGGAGTC CAGGAAAGAC GAGGCACCTT GGCCGCGGG CCTGCTGGA CTGTAGTTG CCTAGACAGG GCACCACTT
GCACCTCCG ACCCGCGTG GAGGCGCGT GAGGTTTGT GTCTCGAAGC AGCAATTAA AAGCAAGAGG ACTTCATGAC
CACCATGGAC GSCAATTAGG AGAAGATCAA

SEQ ID NO:1718: (Length of Sequence = 379 Nucleotides)

GACATGGAGA CTCACATGGC TGCAACAC TGTCAGGTGA CCTGCAAATG TAACAAGAAG TTGGAGAAGA GGCTGTAAA
GAAGCATGAG GAGACTGAGT GCCCTTTGCG GCTTGCTGTC TGCCAGCACT GTGATTTAGA ACTTTCCATT CTCAACTGA
AGGAACATGA AGATTATTGT GGTGCCCGGA CGGAACATG TGGAACATGT GGTGCAATG TCCTTGTAAG AGATCTGAAG
ACTCACCTG AAGTTGTG GAGAGAGGG GAGGAAAAGA GAAATGAGT TGCCATACCT CCTAATGCAT ATGGATGAAT
CTTNGGTCA GGATGGAATC TGGATTGCAT CCAACTCTCT CAGACAAAT GAGGGCTCT

SEQ ID NO:1719: (Length of Sequence = 197 Nucleotides)

CCTATATTG TTTAATTTAT TTAAGACCAC CTCCTTACAA CTTCAGAGA GAAAATACAA AACAAGAAAC AGACTTGGTT
TCAAATGCAT AACCAGGTGC TGAGTTTAA AGCACTACTG ATAACATTGT TACAGAAGAA TGGCAGCTTA CTCCAGGGCA
CTTCAGTATT CCTGAGGAAT AACATGATT TCGGAAG

SEQ ID NO:1720: (Length of Sequence = 203 Nucleotides)

GAGGGCGGG CAGAGGGAGC ATGACGGGA GAGTGAGGAG GAAAGAGGAA AGGAAGGCCA GGTGGGAGG AAGGATCANC
TAAATCTGAG GGAAGAAGAA GGAAAGGAGA GGCCTATTT CATAGCAGAT GCAAATRAAG GNCITGGG CTAKTCAGGA
AGAAAGGGAA AGGAAGGAA GGCAAGAGAG AGGGGTGAAG GGA

SEQ ID NO:1721: (Length of Sequence = 326 Nucleotides)

GGTGACGGA TGTTTAATGG CAATTCGTAT AAACCAAGCC CATGCACAAG TAGAAAGTGC CCGTGGAGCC GGCAGGAGGC
CCCCCGCG NTAGAGAACC ACAAGCCCG CCGTGCAGCC CTCCCGCG CGCCTTAAAT AGATTCTTCA CTATACTCTG
TATGTTACAG TATGTACAAG ACCCTCCCC TCGGGGAGC GGGCGGACTN CGCAACGNGT TCCTATGTAC ACCACCTCCC
CTTTCGGCCC TGAGGTCA GTGCCAGAGT GGTGATGG GTAAGANAG GCCAGAGAGG GAGGAAACAG ACGCAAACAT
GCGGAG

SEQ ID NO:1722: (Length of Sequence = 291 Nucleotides)

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TGTTTTTAAA AATGAGAAAA TTTGGAGAGA GAATACTATT ATGTCAACGG TACAAGACTC TGAATCTTGA AGATGTAGAT
 GGATATAATA TTTAGACTTT ATATACACCC ATAGATATGT ATTTATATAT GCATACGTTT TGTATAAATT TACAATTGAC
 TTTTGTATT CTCTTINCTG TCATTACAAG AATGAGATGG AAACCAAAAT AGTTGTNCCA TCCTCTTACC CAAAGAGGGA
 TACTGAAAAG TCCGGTATGT GCATGCACCT GTTCTCTGG GGTCAAATCT G

SEQ ID NO:1723: (Length of Sequence = 369 Nucleotides)

GATTGCCCGC TCCCTCGATT CCTTCCTGTT GTCTCCAGAA GCTGCTGTGG GCTTGCTAAA AGGGACAGCA CTGTCTCTAG
 CCGATTACC TTGGGATAAG ATTACCGAAT GTCTTAGTGA ACTATGTTCT GTTCAGGTTA TGGCAITGAA AAAGCTGTGT
 TCCTAAGAGC CCAGCAATGG CATATCCTCA GATCCCACAG TGTTCTTAGA TCGCCTTGCA GTGATATTTA GGCATACCAA
 TCCCATTGTG GAAAATGGAC AGACTCATCC GTGTCAGAAA GTCATACAGG AAATATNGCC AGTTTTTATC CGAGGACTCT
 AAAATAAGCA CCGAGCTGNA TAATCGGATT GTAGAGCGTT GTTTCAGG

SEQ ID NO:1724: (Length of Sequence = 231 Nucleotides)

ATGTATTGTT AGTTCGATT CTTCAAATTT TATACATATT TACTTTCTGT TAAAGAGAAA AGGATAAAAT GGTATAAAAA
 AAGATAAAGC TATTAATTAA GCACGAGAGA GAAGATAAAT GGATATTTTC CCTGTGTGAG GCTAAGACAG AWGCAATCT
 CGTTANGAAA AATGCCACCC ACACAACAGG AANTTTATCC AAAACAAAAC AAAAGCAGTT ATAGANCCCC T

SEQ ID NO:1725: (Length of Sequence = 317 Nucleotides)

GTGCAGGGTA GGGTACATAT GGCTCTGTCA GAAGAATACC ATGATTTAAG GGAAGAAAGT ACACAAGGTA CATGGAGGGT
 ACACAGGGAA AGTACATTA TAAACATGGA CGTGTGCAAA TAGGAAAGAC ATGACTCAGC ATGCTAGACA AATTGCACAT
 GCCTACCCAA ACACGCTTA GGGCAGACCC ATGACCATGA GAGGGGCACA CGTAGCTGTG AATGCAGGSC ACCCGAGAGC
 ACATGKTACT KAACATGAAG AAAGCATACG GGAAAAGCGT GTKTACACAT GNGCATGTTT AGTGGGGCAC ACGCAGG

SEQ ID NO:1726: (Length of Sequence = 282 Nucleotides)

CTCTGAACC AGATGAGCAG CCACCGGAAA CAGAAGCAGA GAGAGCGGA GTCCTGGGAA TCCAGGAAGT CGCAGAGCAG
 GGGGTCCAGC ACCCTCAGGA GCAGCAGCAG TCGCCCGAKT TGCCGCTTCA TGGTCTCCTG GCTCTCTTCA AAGTTCCCTT
 GCACGAGCTC CATGAAGCCA CAGAAACACC AGAAAGCATC CACCTCGTTC TGAATGACGT AGAGGATCGG GGAGAGAAGA
 TCATCATGC CCTGGACGTA GCCGAGGTG AAGTGATACA TT

SEQ ID NO:1727: (Length of Sequence = 285 Nucleotides)

GAGTATTGAT TTCAGGCAGG ACCCAGGTCC CAAAATGTTA GAAACAGTTA TCCTTTTCC CTCTGAGTTC GTTATTCTCT
 GGGGCCCCAG TATCCGTGGC TTAACAACCC GGCTGGATAG AAGGCACCTC TTTCCCCACG TTCCAACAAG ATCCCAGAGC
 TGCTTCTCAT TGGCTCGTCC CTGAGTCAGT CACACTGGAC CGGAAGGTGA AAGGCCCTCA TTGGCCAGNC CCGAGTCATG
 TGCCCAACCC TGGGGATCCA GCTGTGGGNC TNCITTAACA GCATT

SEQ ID NO:1728: (Length of Sequence = 394 Nucleotides)

TTTTTTTGAT GAGGAGATAT AGCAAAGGGT CATTTGCCCC TCCTTCAGAA AACTTTCTC CAAATCTCCT TTAACATAC
 TGCCTTATCT TTCCCTCCAT AACTCCACCA GTCTCTCCAC ATCCCCCTCC AAATCTCTGT ATACATAGGC AAGAGAGGGC
 GATTCCAGC ACAAGTCTAG TCCTGGGCGA AACTTCCATC TCITTCCTCG CATACCTCCT GTCTGGGTAT GGGGATAAGG
 GAGAGTATGG GATTTTGTTC TCATTTACAT GCTTTTCAA AATTTCTGTA ATATGTGGCA CTTATAAAAT CAGAACAGAC
 AAAATGATAT CGGGTAAAC ATGCAACTGA GAGCAATTTG GGGAAAAATC CTCAGNCAC AAAATGTATT ACTG

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SEQ ID NO:1729: (Length of Sequence = 301 Nucleotides)

GGAAGTTAAA GTATTTATTG ATGTGTTTAA ACTGTGTACA TTCTCCACAG ATCATATTAA GNGTTTTKTA GGKGAAGTTT
AATCTGTGCA TAGTGGGTAG YGACATGAWT AGGGTCAAAG GGGAGGYAAA AGGAAAAAAA CAAAACAAAA ACAGTCACAG
GAAAWTAAAA ATACACOMCA GGTACCAGA ACCTTCAGGT TTAATAATAA ANGNAAGNAA AAGCAGAAGC AGTGAGCATC
GGCATCAACC TGTACAAGCA TTACAAAAGG CTCCTGTGAC GGAAACACAA TTGTTCAAAG G

SEQ ID NO:1730: (Length of Sequence = 312 Nucleotides)

GACGRACGCT CTTGCCACGC CCTGAGCGTG TACACATGAT GTNTTCTATG CATTACCCCT GCCCCCAGC CGCCCTGCA
GAGSACAAGA TGGGTGGCCC CGGCTCCCTT TCCCTAAACC GCCCCTGCC GCTGTGCAGC CGTGTGCGTT GCGGTGTGTT
TCTGTGTAC TGGCGTGTCA CGTGATGTAG CGTGTGTGCG TGACATGAGC CCGTGGCCCC TTCTCTGTTT CTCGGTGTGT
TTCTAGAGCT CTCTCCCTCC CCTCTCAGA GGGACAGGA CTCCTGGGGT CTGGCTCGGG CCCAGAGCCA GG

SEQ ID NO:1731: (Length of Sequence = 392 Nucleotides)

ATCGGCTATG GGTTCGGTG CGTGACAGAG GAGTGCCCGC TGGCAGTCAT CGCTGTGGTG GTTCAGTCCA TCGTGGGCTG
CGTCATCGAC TCCTTCATGA TTGGCACCAT CATGGCCAAG ATKCGCGCGC CCAAGAAGCG GGCGCAGAGC TTGCTGTTC
GCCACCACGC GGTATTTTCG GTGCGCGACG GCAAGCTCTG CCTCATGTGG CGGTGTGGCA ACCTGCGCAA GAGCCACATT
GTGGAGGCCC ACGTGGGGC CCAGCTCATC AAGCCCTACA TGACCCAGGA GGGCGAGTAC CTKNCCCTGG ACCAGCGGGA
CCTCAACGTG GGCTATGACA TCGGCCTTGA CCGCATCTTC CTGGTGTGCG CCATCATCAT TTTCACGAG AT

SEQ ID NO:1732: (Length of Sequence = 352 Nucleotides)

GTACCTAGTA CCTTAGATAA AGGGAAATGT GTGATTCITA ATGAGCTTTA AAAGGAAACA ACTTCTTTT TTTTTTTTTT
TTTTTGAGAC GGAGTCTCAT TTTTGTCCC CAGGCTGGAG TCGAGTGGCG CGATCTCTGC TCACTGCAAG CTCGCGCTCC
CGGGTTCAGC CCAATCTCCT GCCTCAGCCT CCGAGTAGC TGGGACTACA GGCTCCCAACC ACCAGGNTCG GCTAATTTTT
TGTATTTTWA GTAGAGACGG GGTTCACCG TGGTTAGCCA GGATGGTGTG GATCTCCTGA CCTCGGTGAT CCACCCACCT
CGGCTCCAA AAGTGCTGGG GATTACAGC GT

SEQ ID NO:1733: (Length of Sequence = 321 Nucleotides)

TTTTTGTGTT GTTGTGTTGT TTGTTGTCAG AGTCTTGCTC TTGATCTATC TCCAGGCTG AAGTACAGTA GTGTGATCTC
GGCTGTGCTG ACCCTCTACC TCCAGGTTT AAGCAATTCT CATACCTCAG CTCCTGAGT AGCTAGAACC ATAGGCACAC
GCCACCATAC CTGCTAAGTT TNCTATTTTT AGCAGAGACT GGATTTTGCC ATGTTGGCCA GGCTGGTCTC GAACTCCTGG
CGCAACTGG ATCTGCCCAA CTCAGCCTTC CAAAGTGCTG GGATTACAGG CATAAGCCAT TCATGTGCGG TTKTTCAACT
G

SEQ ID NO:1734: (Length of Sequence = 208 Nucleotides)

AAGTCAACGT ATCTATTTTT ATTATGAAAC ATTAAATTTT GACACATTGC CTCATTTGCT TTTTAAAT CTATTATCTG
ACTTAAACCT ATTCAGCAAA AATGCCAATA AATTATATTA ATCATACTTT GGGTCTTTTT AAAACTAGGA ACATAATATG
TTTTATGATA AACATAATA CTAAATCTGA GTTGTATGAA CTGTTAAC

SEQ ID NO:1735: (Length of Sequence = 347 Nucleotides)

TCTATTACCT GTACAGTATG GTTTATAGT TGGTGAGTTT CTAAGGGGA AGCCGGCCAG GGAGCGAGCC CAGAACGGAC
CGGACGCTG TNCACCCCA GCCCTGCCCT TTGGCCGAGC AGGCCTCAGC CCTGGGGAGG GAGGGGGCAC TGGTGCCCC
AGCCTCTCCA ACCCCCAAAC TGCTGCTGCG GGAACCCCC CCCACCCCGC CTCAGAGCC CTCCCCCTTG GACTAGAGCG

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GCTGGGCAGA GCTCTAAACA GGGGCAGGG CTCCTCTGCC AGCCTGTGGG CATGGCAGTC ATTCTGGAA GGGGCAGGAC
CTCCGGCCTT GTCCATTTTCG GGGGGAA

SEQ ID NO:1736: (Length of Sequence = 356 Nucleotides)

GACACAGGA GGGGAACAAC ACACACTGGG GCCTGTGGG GAATGGGGG TGAGGGGAGG GAGAGCATCA GGACAAATAG
CTAATGCATG TGGGGCTTAA AACCTAGATG ATGGGCTGGG CGTGGTGGT CACGCCCTATA ATCCCAGCAC TTGGGGAGGG
TGAGGCGGGC GWTTCACGAG GTCAGGAGAT CAAGACCATC CTGGCCAACA TGGTGAACC CCGCCTCTAC TAAAAATACA
AAAATTAGCC AGGCATGGTG GTGGGTGCGT GTAATCCAG CTAATCAAGA GCCTNAGGCA GGAGAATCAC GTGAACCTGG
GAATCGGAGG TTGCAGTGAG CCAAGATCAT GCCACT

SEQ ID NO:1737: (Length of Sequence = 324 Nucleotides)

TGTTTTCTAA TGATTTTAA TTTTTCAGAG GAAAATAATT TCAAGAAATA AAACCTAATT CCCCTGAGTC CTTATTGAAT
TAAATATGA AAAACAATGA ATGAATGATG CATTCCTATT AATGGACTGT AAGAACTGA TATAATGGAC TTCATTCTAC
AATTCGGITT CTTATGTCT TACACATGCT CCTCGAAGCT AAACATTTTA GGACCTTAAC ACCATTTCCTC TAGTACAATT
ACTAAAAGAA AGCTTTGGAT AATATAATAT CAGGGAAGAT AGTACAACAT AGTGAAGGAT GACATAGGGA AGATGTGAGG
AGCA

SEQ ID NO:1738: (Length of Sequence = 316 Nucleotides)

GGCACCCCTGG GCATGTCCAG CCTGGAGCAG CTGGAGCAGA ACTTGGCAGC AACAGAGGAA GGGCCCTCG AGCCGGCTGT
CGTGGATGCC TTTAATCAAG CCTGGCAATT GGTTGCTCAC GAATGTCCA ACTACTTCCG CTAGGCCAT CATGGCTCAG
GCTGCCAAG GCTTTTNTGT CACCTCTTTT GTTCTCTCAC ACTGACCAGT CTGGCCCTTA AGCTGACTTA GAAGGGTTTT
TCTGAATGT CTAGATCCAT GCATTATTT TCTAGCTTCC TGCCCTGCTC CCTATTCACT TTACTGTG AAAGGT

SEQ ID NO:1739: (Length of Sequence = 398 Nucleotides)

CAAAAACCAT CTCAGGATAC TGAGAAGCCT CTGGAACCTG TGAGTACTGT TCAGGTAGAG CCTGCAGTTA AGACTGTAAA
CCACAGACT ATGGCAGCAC CAGTAGTCAA AGAAGAAAA CAACCTGAGA AAGTCATCAG CAAAGACCTT GTTATAGAGA
GGCCTCGACC AGATTCAAGA CCAGCAGTTA AAAAGAATC AACTTTGCCT CCCAGGACCT ATTGGAAAGA AGCTAGAGAG
AGAGATTGGT TTCCAGATCA AGGATACAGA GGTCGAGGCC GAGGTGAATA TTACTCCAGA GGGTCGAAGC TATAGAGGTT
CTTTATGGGA GGGGCGTGGC AGNGGGTTGG TAGGGGGACA CACTTCGAGA TTATCCTCAG TATANGGGGC AATAAGCC

SEQ ID NO:1740: (Length of Sequence = 376 Nucleotides)

GAATAAATTC GCAAACTATG CATCTGACAG AGGACTAATA CCCAGAATCT ATAAGGAACT CAAAAATCA GGAAGAAAA
AAATCCCATC AAAAGTGGG TAAGGACATG ANTAGACAAT TTTCAAAGA AGATATGCAA ATGGCCAGAA AGCATATGAA
AAAATACTCA ACATCCCTAA TTATGGGGA AATGCAATC GAAACCACAA TGCAATACCA CTTTACTCCT GCAAGAATGG
CCATAATTTA AAATCAAAA AATAATAGAT GTTGGCGTGG GATGTGTGA AAAGGGAACC ACTTTTACAC TGCTAGTGGG
GATGNIAAC TACTTCGGCT ACTATAGNAA ANCAGGATGG GNGGATTCCT TAAAAG

SEQ ID NO:1741: (Length of Sequence = 322 Nucleotides)

CAATGCAAA AATCAAGACT TGTCATAAAN TGATGTCCA TAGCCTATAC TGTTTAAAT ACINTAACTN TATAGTAAAT
CTTGATGTTT AATACAGCAA ATGTTAAACC AAGCTTTCAC TACAGAAATA AACAGAAAT TATAGGCGCT CATTATCCTT
TTAGACAAAG TTGTATTTGC TTGTCTATTR TTTTGTGTTA GGNITTKTGC AACTATTTCA CAAACAGGNA CAWRATATT

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TAAATTGTTA ATAGAARTTT CCAGTTTTCT TTAGTCTCTG CTTACTCCAA GTACTGGTTG CTGTGAATGA CCTTTTCATG
AG

SEQ ID NO:1742: (Length of Sequence = 322 Nucleotides)

CCCCCAGCC AGGAAAAAAA AAAAAAGCTT TGAGGAATGA GAGAGGGTGA GATGGGTGCA AGAAGGTGCT GGGCAGCCAC
GGGCGCACG CCTCANTGGC CCCAATTGCC GAAGCCGATC TCCTGCTTGT ATCTGTAGT GAGGATGTTG GCTTTGCGG
TNAGTTTCGA GAGCACAGTG TGCAGCCCGC GCAGGTGGTA GTGGAACINC TGTTCCAGGT CTTCTTCGCC GGCGTCCGAA
CCCTCCAAGT GGGCCAGGTC CACCAGGATG TCCTTGGGAC TTCCAGGCAC TGCCCTNCTC GNTCCCAAGC CGGTNGGAGG
CG

SEQ ID NO:1743: (Length of Sequence = 250 Nucleotides)

ATGGGTAGGG GGGCAACGCA GTCACCGCCG TCCGAGTCA CAGTCCAGCC ACTGACCGCA GCAGCGCCCT TGCCTAGAGC
CGCTTGACG GAGAACACTG AATTGCCAAC GAGCAGGAGA GTCTCAAGGC GCAAGAGGAG GCCAGGGCTC GACCCACAGA
GCACCTINAG CCATCGCGAG TTTCCGGGCG CCAAAGCCAG GAGAAGCCCG CCATCCCGCA GGNCCGNTC TTTCAGCGAG
ACGNGAGTTT

SEQ ID NO:1744: (Length of Sequence = 247 Nucleotides)

GATGATTGAG TGTTCCTTTA AAAATAAAAA CCCACAAAA AAGCCAGAAC ACCCTACCCA ACCCAGCCCA GTGTAACAGG
TTAGCCATTA ACACAGNATA AAGAWGGTCC CAGCCACACA CGTCATTACT CGGCAGAGGG TGTCCAGKCT GGTGKCCGA
CGTCACAGTG GATGGCCCTG CGTGGCTGGG RCACAGACAG GGNGCAGGCA TGGCACCTTT CGNCAOCAG AGCAAGCATA
GGCTGTA

SEQ ID NO:1745: (Length of Sequence = 379 Nucleotides)

TTCTAAACCA GTTAATAAAT TCATTCACA AGTATTTACT GATTACCTGC TTGTGCCAGG GACTATCTC AGGCTGAAGA
AGGTGGGAGG GGAGGGCGGA ACCTGAGGAG CCACCTGAGC CAGCTTTATA TTCAACCAT GGCTGGCCCA TCTGAGAGCA
TCTCCCCACT CTGCGCAACC TATCGGGGCA TAGCCCGAGG ATGCCCCCAG GCGGCCCAGG TTAGATGCGT CCCTTTGGCT
TGTCAGTGAT GACATACACC TTAGCTGCTT AGCTGGTGCT NNGCCTGAGG GCAGGGCAGG AAAATCAGAA TAGCATTTGC
TTTCTCTGGG GCAAAAATGG GAAAGTTAG CGGNGNCAG CAGGAATCAA GTGGGCATT

SEQ ID NO:1746: (Length of Sequence = 472 Nucleotides)

TTCATGCTGT CCCTTCATTG AATTTTAGAA TGATTGAAGA TAGTGGGAAA AGAGGAAATA CCATGGCAGA AAGAAGACAG
CTGTTTGCG AGATGAGGGC TCAAGATCTG GNTCGCATCC GACTCTCCAC CTACAGAACA GCATGCAAGC TTAGGTTTGT
TCAGAAGAAA TGCAATTGTC ACCTGGTGA CATATGGAAT GTCATAGAAG CATTGCGGGA AAATGCTCTG AACAACTGG
ACCCAAACAC TGAATCAAC GTGTCCGCT TAGAGGCTGT GCTCTCCACT ATTTTITACC CAGCTCAACA AACGGGNTGN
CAACCACTTC ACCAAAATCC ATGTGGAGCA GTCCATCAGN CTNCTNCTTA ACTNCTGCT TGCAGCGTTT TGAINCCGGA
AGGCCATGGT AAAAATTTCA GTATTGCTT GTCAAAAANG GGTTTITAGG NCCATTTGTG TGGAGGGGA AG

SEQ ID NO:1747: (Length of Sequence = 351 Nucleotides)

AGGATCAGAA TACTTTAATA AGATACCACT GTCAAAATAC ATTTCCCTTAT AAAGITAAGC TCCCATACAG TTATAATGTT
GTCAGTAGGA ATTCGACAAT ATAATAACGT TCATGAAATC GTTACGTGA CAGGTAGGGT TAATATGAAG CTGGAATAT
TTTCCAGTGT TTTAGTAAAA CTGCAAGGGT AAAATGCCCT TAATGCCAGG GCAACACACA CAGGNAATCA AATACCAGCA

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TTTACACGNC AGTAACCCCTT CAAGTTCTGC CACCCGTGTG GGGGGTAATG CCGTGCAGCT AAAAATATGG GTTTTACGNA
ACANCCATGG CCTAAGGGGA TTTCTCATAG G

SEQ ID NO:1748: (Length of Sequence = 428 Nucleotides)

AATAGCTTCA GCTGATTGGG TGAGTCTTAT TCATGTTATA AAAGGTAATC TGCTTTCCCTT AACATTCCAT AAATCTTAAT
CACATCTGCA AATACCTTCA CAGCAACATC TAGACTAGTG TTTGACCCAA CAACTGGGCA CAATAGTTTA GCCAGCTTTA
CACATAAAAC ATCATCACAC TATGCTTCTC TTCTGTGTTC TTTGTTACCA CGTATCTGTT CCATGTGTTT TNCCTTGTAT
ATATCCTATC CTGTATATC TCTCCTATGG TTTGTGGAA ACTATAAGCC TTCTGGGGGG TAAAACACTA TATCTTTGTT
CAATTGTTAA TACATCGNAT AGCATATCAT GCTTGGGGGC ATTGTTTAAA CCCCCCATTT AAATACAGCT NGGCAGCAGG
ATTTTAGGCA TTCCGTCATG GTGTGCCA

SEQ ID NO:1749: (Length of Sequence = 478 Nucleotides)

GGTTTCACCA TGTGGCCAG GTTGGTCTCA AACTCCTGAC CTCAGGTGAT CCACCTCAGC CTCCTAAAGT GCTGGGATTA
AAGGCGTGAG CACNCACAT CACACCTGGC CCTCAACCAT CTCCTTCACC TTCTGCTCAT GACAGTTTAC TAGAATTTTT
TTCCCTTGAG ACTGAATGTT AAGTCAAAAA CAATAAAAAA TTGCTAATCA TTACTATGAC TCCAGAGCTA CTGTCTCTTT
TAAATATTC TGAANTTATA AAATATAAAG CCAAAGCAAT GAATTTCTAA TGGTGGAAAT GTAGACACTG TGGGCCCCCT
GGGATGTTA TTTTCAGATG GGGCAAGGGG ATATTCTTAA CCTATTTTAA AAATCATGCC AGCCTAGATA ACTATGTGAA
AATATATGG GGTGCTTAGC AAACTATTA CCTAGCACCC CTTTGGCAGT TTTACATTAA AAATCCCTTT ATTAGGTT

SEQ ID NO:1750: (Length of Sequence = 439 Nucleotides)

GACATTTTAT TTCCAGGTG GCACTGTAT AAGGCACAGG GGCAATGGC TTTGGGGTCC TGGAACTGGA AATGGAGACA
GGTGTGCTC AGGTGTCCCT GCCTCCACCA CCCCCTAAGT GCATTGAGA CAGGACCAGT GGTGGTGGTT CCAGCCCAGG
GTCTGAAGG GINCCACTGG CTCTAGGGGA GAGCATGGG GACAGCTCCC CAGGCGGAC CCTCTACTCT CCAGCTACCC
AGGAGGGACC CINTCTCCT AGGGGGCGAG GCCAGCTCCA AAGTCTTNG TGGCTCCCCA GGCTTAAGGG ACCAGNCTGC
CAGGGAGGGG TNGGNTCANA GAGAGAATAG TAAGATNAGA CGAGGAGAAG CACCCCACTA GCAOGCGAT TGGANAACAC
TNTGGCGGT ACTCGTCATG TGGTAAITTT GCCAANTTC

SEQ ID NO:1751: (Length of Sequence = 347 Nucleotides)

CTCTATTACT TATGATTACA CCATGGCAAT ATTCCTTTTT CACCAGGAGC TTTGGACCTG CGCAGGTGTG GGCATGTAAT
CACCCGGAGC ATGTAGTCAT CTGTAGAAAT CACAGGCACA CTCATGTTTG CTCTGGAAGG AATCTGTTTT CCACAATGAC
TCCCCCAGC TAATGTACAC ACTGGCAITTT TGCAATGCTT CCTCACACAT GGGGCACCAG CCTTGCTTCA GAACCAACCA
AACTCCACAG AGGCCCTTAA ATATGGGCTA GGGACAGATT TTCTTTAAGA AAGAGTTAAG GANGCAGCTT ACAAAGGGAC
AAGGCAAATT CCACAAGTCA GGCAGCA

SEQ ID NO:1752: (Length of Sequence = 297 Nucleotides)

GGATATTCTA GCCATACAGA TTCAATGGAA CAGAGAAGAG AAAGGAGGTT CCATTGGCAC CATAGTGAGC CATTCAATTTG
CCCAGGAAG NNGGTGGGG CTAAGGGGCT AGGTTTGGTC CCATGGCTAC ATTAAATGCT TGGCATGACT CCAGGGCTNC
TCTAGTTAGT GGCTCCAGCA CAGTATGAGT TAGGTGAGTT AGGTGTAGGA GTTTGGGGAC AAGGAAAAAG GGAGGAGGGG
TCCTAGAGG CINGGTGCC ATTACATAGA CTCAAATTG TCAATGCGCT GCTTTAG

SEQ ID NO:1753: (Length of Sequence = 402 Nucleotides)

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AAATTAACT TCAACAAGCT GGTGATGCC AACTACCAT TCATCAACAT TCGGTCAAGT GGTGTGGTTC CTCAGAGTGC
ACCACCAGTG CCAACAGCCT CTTCOCGTT CCATTTCOCA CCTCTGGACA CCCATTCTCC AACCAATGAT GTGCAGCCGG
GACGGTCTCT TGCTAGCTCC CTAACCTGCTT CTGGCCAGGA GTCCAGTAAT GGTACTGATA GAAAGACTGA GCTTTCAGAG
CTGGAGGATG GCTCAGCTGC TGA CTGGCGC CGGGGTGTGG ATCCCGTGTG CTCCAGGAAT GCCATTGGTG GAGGAGGGAT
TGGCCATCAG AAACGCAAGC CTGACATAAT GCTTCCTCTG TTTGCTAGGC CAGGGATGTA CCCTGACCCC ACAGTCCCTC
GT

SEQ ID NO:1754: (Length of Sequence = 397 Nucleotides)

CAGTGGCATC TATGGCTCTA AAATGGAAAG GAGGAGTCC TGGATTGAGC TACTGACTTA CTCTGTGAAT TTACACATAA
CTTCCCTTGA GCCACAGATT TAGCATCTA CCAGTCACCT GATATTTCTG AGCAGCCACA ATATTTTAAA ACTATATTTA
AATCTGAATT TGGATTTAGC AGAATTTAT TTTTCCATT TCTATTTCT ATGGTCACTA AATTGAAAT ACAACCATG
TAAAATTTGA TATCATTTAA TATGTAGGAC TTTATCCAGT TTCAAAGTAA AGATGTCTCT AATGTAATTA ATTGTNATTT
TCACTGATGA GACTGAAATA CAATCAGTCT GTATTGTGTG GTGCGTATGT ATCAGTGGTA AGAGGCTATG ATTAGAC

SEQ ID NO:1755: (Length of Sequence = 353 Nucleotides)

GAATTACTCT GTGTTCACC TTTTGCTTTT TGCACGTGT GTNCTCTAT CTGTATTTTG AGCTTAGTGC TAGGACTGAG
AGGCTGCACC ATAGGGAATG TATGGGAGAT GGTGAGGGT GCCAGTNAGG GGTGCGTGA GGAGAGGCCT GGGCTCCTCT
ACTGGATCTA CACTCTGTCC CAGGTTTTTA GATCCCACTG AGCCCACTG ACTGAAAACA AGGACAGTCA GGGTGAAACT
TCTTTTGCCA GAAGTGTGGC CTGAGTTGAA TTTCTGGAG GATGACGCAG ATGTCTGCTG CAGAGCTGGG CTGAGAGTTC
TNCATCTAG CTCTGACITA GGTCAGGGG CCT

SEQ ID NO:1756: (Length of Sequence = 184 Nucleotides)

TGGGCTCGGA GCATCGAGCT GGACATGCGC ACCATTGCCA CTGCACTGGA ATATGTCTAC AAAGGGCAGC TGCACTCTGC
CCCTTCCTAG CCCCTGTTC CTCCCCAAC CCTATCCCTC CTACCTCACC CGCAGGGGNA AGGAGGGAGG CTGACAAGCT
TTGAATAAAA CACAAGCCTC CGTT

SEQ ID NO:1757: (Length of Sequence = 425 Nucleotides)

ATTACAGGCG TGANCAACAC ACCTGAGCTA ACTTCCTGGC TTTTCAATCA AACCATCTTT GTCACTTCCT GTCCCCACCT
GAAGTCAGAA AGCCTGAAGA GAAGAGGCT CTATTGCCNC AGCTGAGTG TGGTGGCACA ATNTCAGCTC ACTGCAACCT
CTGCCTCCTG GGTTCAGGCG ATTCTCCTGT CTCAGTCTCC TGAGTAGCTG GGATTACAGG TATGCACCAC CACGCCCTGC
TACTTTTTCG TATTTTATG ATAGAGATG GGGTTTCACC ATGTTGGCCA CGCTGGTCTC TATCTCCTGA CCTCGTGATC
CACCTGCCTC AGCCTCCCAA AGCGCTAGGA TTACAGGCGT GTAAGCCACC ATGCCCGGCC AATTTTGCCA GTTTTATG
GGCTATTCCT TATTGAGATC TAGGG

SEQ ID NO:1758: (Length of Sequence = 407 Nucleotides)

AGGAAGGCAT AAGCTAAGCA TCCTTCTAAC CAGTTCCCAA AGTCCCATCT GCCTCCATGT ACCAGCTGAT CGCAGAGCTG
GACTGGGCGA GGCTGGGCTT CCAGGAAAT CCTGAAGTTC TGAACAGCT TCCCTCTAG AGAAGCCAC CCAATGTGTT
TTTTAGTGAC AGGAAGAAAG GAGGGAAGAG CTGATGTGGT GTGGCTGCC CATATCATAC AACCCACCA GGAGCAGGGC
AGTTCCCAAG GTGGGTGCC GTAGATCTGG GAGGCCAGGC TGGCATGATT CCTGTGAAGA ACTGTGCTG TNGTCTCAGG
GAGAGGCTG AGCCCTCTCA GAAGCAGGA CAGCCACAAC TGAAGAGCAC GCCAAGCTGA GGCAGAGCA GCAGCTGGGG
GAGCAGT

391

SEQ ID NO:1759: (Length of Sequence = 386 Nucleotides)

ATATATTTTT TTGTATAAT TTCTTTGTAT TTTTTCCTG CAAGACTTGG TGTGGGGC ACTGTGTAG TTTAACTTCA
 ATCCCAAATT CCATGAAATA GAAATCAGAA GTAAAGGTTG AGAGGGGAGG AAGGAGGGAG GCAAGCCAAG GAATAAACAA
 GAGTTTGA CT AGAAAAAAG AAGAGGTAT GTGTGGTGGG CATTCCTGGG CAAGGCCATT CCTTGAGGGA GGGGGTTGGC
 AGGCAGCTTG CCTCTGCCCTC ATGCAGGGGA GGGAGGAAAG ATCCCTGGG GACCTGCAG TCCCTCTTC CTAGGGCTTC
 CTGCTCCAG GGGAAAACT AATACCAGAG AGGGATCAGC CACAACCTNA AACAGGGCTC TTCACC

SEQ ID NO:1760: (Length of Sequence = 395 Nucleotides)

CTTCATGCCT CTGGCCGGGT CCAAGCTGGC CAAGAAGAGG GAGGAGGCCA TTGAGAAGGC CAAGCGGAG GCTGAGCAGA
 AAGCCCGAGA GGAGCGAGAG GNGAGAAGGA GAAGGAGAAG GAGCGGAGG AGAGCAAGAG CGAGAGCNTG AGGCAGAGCG
 GGGGGCTAAG GCGTCCAGCT CAGCGCATGA AGGTGCGCTC ANTGACCCAC AGCTCAGTGG TCCTGGCCAC ATGCGGCCAT
 CCTTCGAGCC ACCACCAACC ACCATTGCTG CTGTGCCCC CTACATCGGG CCGACACAC CTGCCCTTCG GACTCTGAGC
 GAGTACGCCC GGCCCCAGT CATGTGCCCC ACCAACCGNA ACCAACCCIT CTACATGCCC TTAACCCAG GACC

SEQ ID NO:1761: (Length of Sequence = 378 Nucleotides)

CCCACCAGAG CATTTCAACA AGGCTTACCA CACAGGCCCC AGTACCTTTC TACTCTACAA TGAGGCTCAG AAGCTCAGTG
 TACCACCCCA TCCCCAGGAG GCCCACTTAG ACCAGAAATC CCAAGTCCAT TAGCTACAGG CTGATATTCA GGGACATCGG
 TGTAACAAA GAAGTGGGAT ATGAATATA TCCCTGATTT TTTTTCCTT TTTTTCCTT TTTTTCCTT TTTTTCCTT
 TCTTGTCCCC CAGGCTGGAG TGCAATGGCG CGATCTTGGC TCACTGCAAC CTCGACTCT CAGGTTCAG AGATTCTCT
 GCCTCAGCT CTTAACTGGG GTAACAGACA CTGCTACCA TGCCGGCTC ATTTTTTT

SEQ ID NO:1762: (Length of Sequence = 351 Nucleotides)

TGATAAATAA AGAAGTTCAA AAAATCTTT TAATAGAAGC TATAAATAG CAGATAAGCT AAGTCATTCT CATAAACAC
 CATTGTGCTAT TTGAATGCGT GCATTGTGGC CTGTTACTTT TAACTAGTCT CACTAATTTA TAGTTATATA TGATGTAGAT
 CTAGATTGIG ATGTACACTA AGTGGGTGA TCCYAGATC AAGCTATGAT TGCTGCTGC GTAAAGTGT CCYTTTGGGA
 AATAAATAAT CTTTCATATC TGTAACCTTT GGTATAATTG GTTATTTATG CAATGTATTG TTGTGGTTGT CAACTCAAGA
 TTGTATTCTC ATCTGGGGAC ATTATGAATC T

SEQ ID NO:1763: (Length of Sequence = 157 Nucleotides)

GIGIWTACTT AGTGTGTAAG GTGAACAAGA AAAGCAGCAT AATAAAGGAG CTGTGTTTT ATCAGAGGAG CCTTCCTTCT
 GAGTTTTTAC ATAAGTTGAT GCCTTCACTG CAACTTTGAA TACAGTGCTT TGAATGTGA AACACTTGAA TAAATG

SEQ ID NO:1764: (Length of Sequence = 321 Nucleotides)

GCTCCTCTGC CTTCAACTCC TCCAGCTTCT NACCACTTGG CAACGCACCA CTGCCAGTTC CTCTGGGGCT CTCAGAATCA
 CTGGAGTACT TCTGCAGCTC TCTTGGATGA CCTAGGGGTG CAGCAACAGG CACAAAGCTC TCCTCCAGGT CCTGGATTTC
 TTTATTTCTT CCTTCCCTTC TCCTGGGTGT ATTTCCTG TGAGNGTCTG ACTCTATCAC TTTCAAAGCT GTGCTGTGGA
 TTTGGGTCTT TAGATGAGGC TTCATGCCCT GGNATAAGCA AAGGAGCCTG ATACAGAGTT GGCCTGCAGG GAGCAGCTTT
 T

SEQ ID NO:1765: (Length of Sequence = 420 Nucleotides)

TCAAGCCTGT NATCCTAGCA CTTGGGAGG CCGAGGTAGG CAGATCACCT GAGGTGGGA GTTCGGGACC AGCCTGCCCA
 GCGCGGAGAA AACCGTCTC TACAAAAAT TTTAAACTT AGCCAGGCGT GGTGGCGCAT GCTGCAGTTC CAGCTACTCG

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GGAGGCCAAG GCTGCAGTGG GCTGTGATTG TNOCACTGCA CTCCAGCCCA AGTGACAGAG CAAGACTCTA TCTCAAAAAT
 CAAACAACAA CAACAACAAA ACACCACATA CACACACACA ATGAGGGTAA ACAAATAAG TATGTGTGGG TCACACTTCA
 GCAGGGGTG CTGGTTTGCC AGAGGAAAGT GCAATTATTT TATCTATGGG TGTATTATGT CTCCACTCTA AACTGTCAGT
 TACAGATGGC AAGACTGTTT

SEQ ID NO:1766: (Length of Sequence = 373 Nucleotides)

GTAAATACT AAGACACTAA ATGCGTATTT TAAATTTGCC CATTAAGTTT TGGGCTGCGT AAGAAATTAG TAAAAAATAT
 TTCCAAATAA CATGCAGAAG TTGTTTTTAA ACTTAAATC TCATATTTTA GCTACACCCA CAGCGATGCT ATAGAGAGGA
 GCTGGATTTC GTGTATCTG AATGGCTCAG ATTATGTTCC TTCCAAAAA GTTATTTTAT GTACGATCAT TTTTATATG
 ANGCATATGA AAAATCACC AGAATCTACC ACGTATTTAC CACATAGACA AATGTCCATC TTTAGATCTG TCATTCAACA
 CCAATGTTATT CTTTTTATGC AACAGAATGC AGTGTGTGTA GAAGTACATC AAG

SEQ ID NO:1767: (Length of Sequence = 330 Nucleotides)

GGTGACAGTG GCGGCANAGC AGCAGCATGG TGGCAGCCAC CAGTGGGCCT GGGGCCCCCG GGGGAGAGGA TGCCCCAGAG
 GTGCATGAGC AGACCTCGTA ACOGTCTCC GAGCGGCTCT GTTCATGTTG TCTTGAGGG GCGCGGGGCC CCTCTGCCGC
 GTCCACGCC GCAGCCACAG ATCCATCGGC CTGTGAGTCT CCACACACCA GCCAGTCCCG GCGCGTGAC TGTGGGTACC
 CGGTGCCAC CTCCAGCTCG CCATCCAGCA CTCTCCAGTA CTCTGGCCA CGGAAGAAGT AGGAGGCACC GTNGGACCAG
 CGCATGGCGT

SEQ ID NO:1768: (Length of Sequence = 361 Nucleotides)

AACTGGA AAA CCAAGACTGG TAGACTCTCT TTTCTTCAG ACAATAGGCA GGAGCCAGGC GGAGTCCAGG GATTCTTGGA
 ACACCTATCT TTTCTTGGG GGACACTAAG TTCTATTGTA AGACAAAGTT CAATATGGCA ACAGGACTGA TGGGACACGA
 AGGAGTCCCT ACCGTGATTT GGTGACAGTT CTTCAAAACG ACAGTNTCTC AAGGAAAGGT GGACCTAGGA ACTCCTGAAC
 TTTTGGGTG CCTTAAGTGA GAAATCAGCA TGGCTCAGGC AAGTCTCTG GCTGTGAAG GCTAGCAGG TGTAGTTTG
 GTTCCCACTG CAGCCAGCAA GAAGATGATG CTGAGCCAGA T

SEQ ID NO:1769: (Length of Sequence = 389 Nucleotides)

CAACTACCGC AGCGCCAAC TCAGAGAGCA CATCCAGCGC CGGCACCGT TTTCTTATGA CACTTTTGTG GATTATGATG
 TTGATGAAGA GGACATGATG AATCAGGTGT TGCAGCGCTC CATCATCGAC CAGTGAGCAG AGTCCGTGCT TGCTATCTGT
 CTCATGTTAC AGAGCTTCCA TTACATATTA AACGTGAAAT CTATGACTCC TGTACCTTAC CTGTTCAACA GACCTGAAAA
 TGAGCCATGG CATGGGACA GGGTCACTTC TGACAGGGGA AGTGGGTCCC CAGGTCAGCC CTCTCTTCC CTTTGGGCTC
 TTGCCAAGN TGCTTCCCC TACTGTTAAN CTTGTTTGTG ACACGGTGA GTTCTGTTG GGTCTCCG

SEQ ID NO:1770: (Length of Sequence = 394 Nucleotides)

GCAGTTTAGA GGAAGCTCCT TCTGGGCAAG GTCAGCGGT CCTCCTTCCC TCTCTCTTC CCCTTTGTCC CAGCCTCAAC
 TGACTCTGGC TGTGGGAGGT GTGGAGGTC CTTAGGCTTC CCTCCCAAC CTGGCCTCCA CCAACACCCC TAACAGGAGG
 CCGTGGGAAG GCTCAGCTTC TCTCCGCAT CCTCTCTCT TCTGCTTAT CGGAGGGAGC CAGGGTCCCC TAGGCTGACC
 CTGAATCCTC TTCTTCCCTT CATGGGAGGG GGGCAGGAAT CCAGAGGAGG ATGAAGCCAG CGGACCACA TGGCTTNGTG
 GCTTNGACAA ACAAGCTCAG GGAGGAAATG AGGAGGCGNC GCCTTCAGAG GATTGCAACC CTGTTGGGCA CAGA

SEQ ID NO:1771: (Length of Sequence = 373 Nucleotides)

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CAGAAAAGGC AAAGTTTATT CCAGTGTGA CAGAGAGAGG GTGAGCCTTG CACAGCAATT CTAAAAACAT GTCATCTCCT
TCACCTAAGA GGTAAAGANCC GGTGTAAAGT CATGGGGTCA CTAAACCGGC CGCAGTTACA GTAAGCAGAA GAGGTACGG
CTCAGGCCTT CTCAGACTTT CCTGGGACA CACGGCTCTC TGGGGGGGCC CGGCGAAACC ACTGGGACCA GGAGCCATCG
TACACGCCCA CATCAGGCTT NCCGAGAGG TAGGCAGCCA AGGNCACGTG GCAGGCGGTG ACTCCCTTGC GGCACGTGGC
AATGAGAGGC TTCGAGAGAT CCACCTTCIT GGGCTTGAAC AGAGCACGGA GCT

SEQ ID NO:1772: (Length of Sequence = 281 Nucleotides)

AAAGTGTGG GACTATAGGC GTGAGCACTT GCATCCGGCC TAGGTGGGGT TTTGTCCCG TTCTGCAGGA GGGAGACTGA
GGCTCGGAGG TTCAGGSCCT GCTTGGCTGT ACCCAGCCCC AGTATGTGCC TTGGCCACAC TAGTCAGATC CTTCCCTCC
CACTCTGCC ACCCTGCTCC TGGCTGTCC CATAATCCAG GTTGAATGGG GGTGGGGATT TTNGGGAGCA AGGAGGGCTC
AAAGAGATGG AGATAGGCT GTTGTGAGGC CAAAAGTGCA A

SEQ ID NO:1773: (Length of Sequence = 401 Nucleotides)

CTCTCTGCCA TGCTAACCAA CGTAGAAGAG AATAAGATAA AGCAATGAAA AGCAGAGTGG CACTCTGATA TATAAGATT
TCTAAGAAAT ATAGAGTGAA TTTTGCCCA AGGCCCTCAC TGAATAATT CCTGAACCA AAGAGTATTT CTTAATCCAA
AATTTTACAG TATTAGACCT ACGAATTCG ATGATGCTG ATCAGATGCT AGTTGTCTC GACAATCCAT GCAGTTTTC
AGTATGAAGG AAAGTAACAA ATATACCATG GTTATTCITA TTTCTTCTG AAAAATATCT AGGATATTTT ATAGTGTAT
GTGGTAAAT ATTCAATTGA CANTCACAAT GAAGTATAAT CAGAAGTATT AGCAATTTTA CTTGTATTAT CCTGTATATC
C

SEQ ID NO:1774: (Length of Sequence = 230 Nucleotides)

TCTGTTAAAA AAAAGTAAAA ATGTTACACA TAGGNAATAA ATGTAAAAAG CTATACTTTG CCAAAATAAA GTTTCAGCTG
AAGGTAATGC TAGTTATAAA TTAAATACAA TTCTATTAAAG NNCTTGCAAA AGTCAAAGGA AGACGGNAAA CTCCCTCTTT
TGCAATICA AAGGCAAGA CCTGTTCATT TATTCITTAAT TTINCTTIAT ACAATCATT TCCCCACAG

SEQ ID NO:1775: (Length of Sequence = 359 Nucleotides)

ATTCAAGGACA TAGGCATGGG CAAGGACTTC ATGACTAAAA CACCAAAAGC AATGGCAACA AAAGCCGAAA TTGACAAATG
GGATCTAATT CAACTAAAGA GCTTCTGCAC ATTAAAAGAA ATTACCATCA GAGTGAACAG GCAAACTACA GAAAATCTAC
CCATCTGACA AAGGGCTAAT ATCCAGAATG CTACCTAATT TTAAAGACT TTTTCGGCA TCTTGAAAAA AACCACCAT
ATTTGACATA GGTAAACTG AAAAAACAAA CTATTCATAA TTACAATTTG TGACACATTA TGTAGTAGCT AGGTTTCATCA
CATAAATTAC ATGNTACCCC AGTTCAAGTT AAATTTTCAG

SEQ ID NO:1776: (Length of Sequence = 375 Nucleotides)

GGCAGAGGCT GCAGTGAGTC CAGATGGTNC CACTNCACTC CAGCCTGAGT GACAAAGTGA CACTCCATCT CAAAACCCCA
ACTCCCCCA AAATTTTAA TTTGGTTTGC ATTCTTTGA TTATGTTTGN GGTGATTGA GACTTGAGGC TGGCACTGGA
GCAGGCGTTC CCACCTGTCC CGTGAGGCAA AGGTGCTGGG GAGTGACCAA GTGCATCAGG GGGTGAGAT GCCCTATTCT
GGCTCTTTCA CGCTCAGCCA TCTTAGCATA NGTGAATATA CCATGAGCTG TTTCTCAGCT TGTTTTATTT TCTTGGNGAG
ATAGATGICA CTGGAATGGN CTTTNTCCAA GTGAAAGGCC ATCTTGTGCT ATGAC

SEQ ID NO:1777: (Length of Sequence = 387 Nucleotides)

GATAAGGGAG GAAAGGCAGG AGGAGATGAG GCCAGCCCCA CTGATGACAC CTTGGGCCAG GCCTCAGAC TGCAGGCATC
AGCCGGAAC TCCAGGCTGC TCATGGTCAC TGGCGGTGCT GAACTGTCTC TCCACTTNT TTTGGTCTT GATCTTGAGT

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CCAATGTCCA CTCTCTTCTC AAAGAAGTTC ACCAGCACGG ACTCCGTCAG GATGGAGGCC AGGTTCTGCT CAAAGGAGAT
GCACCACTCG GTGTGACGG TGCCCGCGAT GCGCGCTGTG GGGCTGCAGG CCTNCCCCGCC CACCAGCACC GTGTGCTCTG
CAAGGTCTTC ACATTGCAGG GAGCCCGTNC TGACCACCGA GTAGGAGGAC ATGGACATGT CGTCTTT

SEQ ID NO:1778: (Length of Sequence = 297 Nucleotides)

CCCCCAACT AGAAGAATAC AATTAAAAA AGAGGCAGTA CACATGGTTA ATAAACAGAT GAAAAAATTA AAATTCAC TT
GTACTATAAG ACAGGCAGAT TAAATTATTT TTACCTATCA AATTAACCAG AACAAAGGCA TGCACTTTAG TGAGGATGAG
GAACATACAG ATTCACCTGGT GAAAGTAAAT GTACACACAA CCTTTCAAGT TGATAGTTTG GCAGAAGTTG CTAAAAACAT
TTAAAGCTTT CATACTTTTG ATAAGGCTTT TTATTTTGA AAACATATAA ATAAAAA

SEQ ID NO:1779: (Length of Sequence = 353 Nucleotides)

CAGAAGTAAA AGATTTTAT TGTCTATAG ACACCTCTGA AAAGAGATCT AATTGAGAAA ATATACAAAG CATTTAAGAG
TTTCATCCCC AGAGACTGAC TGAAGCGTT ACAGCCCTCC TCTCCAAGGC TCAGGGCTGA GAACGGTTAG CATATCGAWT
GATCAGTAAA AACATGCAAA AGTGAGAAGG AAAGGGAAAA AGGTGCATT CCGTAAGCTG AGGGGGATGG AATTTTCAGAA
CAGAGGAGGC AGGGTGGACA AGTACCAGGT GGCTCTCCCT TTCCCTCTGT GTTATCTTTC AAAACAGTTC CCAAGCTTNG
NGGAAAGCAA TGAGCTCCAC OCTAYTCAGC AGA

SEQ ID NO:1780: (Length of Sequence = 428 Nucleotides)

CGGCTTCCCC GGAGCAGCG ACAGGGCCAC AGGAGAATGG TATGCTGCTC GGCATGGAGT GAAGACCACC CCGTGTGCAA
TCTGTTCACC TGTGGGTTTG ACCGGCAAGC CATTTGGTTGG AACATCAACA TCCCTGCATT GCTACAAGAA AAATAAGGAC
ACCGGCAGCC CTTAGTTTCA CTGTTTGCCA GCACAGACCT TTGATGGGTG CAGGCTTTTC TGGTATTAA TCAGCCATTT
TTGTGAGAGT TTGACCTGG AAAGGGTCT TTGTATATGT TCTTTTACA TAGTGCCAG CTTGCATGAA ATGTACAGAG
AAATGTGTGG TCGTATTTT TACTTTTGTG TTGTATATGT ATGGATAAAT NGGGTCCCTT GGGCAGTAGA GGCAAAGCTC
ACCTCCCATG TAGCACATGA AAATGCTT

SEQ ID NO:1781: (Length of Sequence = 459 Nucleotides)

ACCTCAGATT GTGAAGGGCT CTGTAGGCTA TGTTAAGGAC ACTAGAAATC TATTGAAAGG TTTTAAGCAG AGAATTGACT
TGCTCATATT TTNCTTCAA AAAGCTCAAT AGCTACAAA CGGTCAATAG ATGGTAGCTT TGTGGGGCTG GGGTGAATGC
AATGATATTG CAAAACAAGA TATAGGGAGA CAAGAACTT TAATAACCTA AACCAGTGGT TCTCAAACIT TCCATGCATC
AGAATCACCT GGATGACTTG CGAAACACA AATAATCAGA CTTAATCCCT ACATTTTCTG ATTTAGCAGG TATAGAATGA
GGTTTAAGAA TTCTAACAA GTTCCAGAT GCGTAAGGT GTCTCTCAGG GTTTTFACTT GAGCAACTGG GTGGATCCNG
TGGATCTTAT GTCCCTNCGA GTAAGGGGTC AGGTACAGCA TTCTCCGTC AGATTGTTT

SEQ ID NO:1781: (Length of Sequence = 420 Nucleotides)

GAAAGCACAG GAGCCTGCTT CCAAAGAGGG ACTGTCCCGT AATTNAGAGA TGCTCCAAGG CTGACCATCC TCCTTCTCCT
GCTGCACACC CAGCAGCCAT CTATGGCTGG ATTTGGAGAA TTTCTGGTCA AACCGGTGAG TATGAGGAGA GCAGGGCAGT
TGGGGAGAGA GGTCCAGCC CAATTCTGCC CAGAGAAGCT CCCAAAGAG AGGGAAGTGT CCTGATGAAG AGCCCATGAA
AGGGGTGAGA CCCAGGAGGC TGTGGAGATT GCTGCGGCT CCTCTGGTCA GTAAGGAACC CTGACAAGAT CCCTAGGATG
GGGGTCCCTT AGTCTCACTG AAGTCTTGT AACTINGGAT TGGGGCCAGG TCANCTCTT CTGATACCCG AGCTACAMAT
CTGGCTTCCC AMTCTTAGAG

SEQ ID NO:1783: (Length of Sequence = 427 Nucleotides)

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AGAGCTTAGC ATGCTGTGG TTCAATGTTT TATGTGTTT TTTACATTG ACTTTTGCCG TGAGCTTTGA GGGAGACAAC
ACCATCACAT ATGTGTAAAT TGTAAAAGAA TTGGGAGAGA ATAGCTTTGG GAGATCAITTT TCTTACTGGC CATGATGAAG
AAAGCTGTAT CGTAGGAAAA TTACTAGGTA ATTTTACTCA CTGTATAAAG TTAATTTGCA AGGTATCATT CGATTGGTAG
AGTTACCAAA ATGAGAGTTA AAGAAACAGA AATATGGTTT CAGTTTATGG TGCATTCTTA TCTTTTTCAC TGAGTCTATT
TCTGTCTGGT TGCTTCACIT AGTACTCCAA CCAGACAAGA GGAAGACAAC TATGCTAGTG TTTTAGGAAA TGGGACAGAA
TGGGGTGATT TAAGTAGGAG CCNGGGT

SEQ ID NO:1784: (Length of Sequence = 428 Nucleotides)

ATGGGATACT AATGCAAGCA TTCAGTGAAA AAAGTAGATT ACCAACTAT ACGATCCTCA TTTATTTTAA AAAGTGATAT
CACCCAGAAA AAAATAAGAA AGATAAAGA TGTGGTAAATA AACTAAAG AATAAAAATA TAGGGGAAAA GGTAGCCAAG
GGATAGATAT TGATATTCAT TTTCTTTTAA CAACTTTATT AAGTTGTAAT TTGTGTGCAA CAGATTGCAT ATATTGANG
TATATACTT GACTAATTTT GACAAATATA TACACCCATG AAACCTACCAG TTATAATTTT AAACATTTTC ATGGCCCTCC
AAAGTTTCCT TGTGTCTTTT TGCAATACAC GCAACACAC ACACCCACA CACAGTATGT AGGGCAACCA TTGATCTGCC
TTCTGTTACA ATAGGGTAGG TTTGCATC

SEQ ID NO:1785: (Length of Sequence = 414 Nucleotides)

GTAACAGAT TACATTTGAA CACCTAAATA AGTATTTGTT TCATAATCAT TACATGCTTG TTTATGATTT ACAAAGATTT
GGTAGAGAAA AGTACAGTCC TTAAGGCATA TATATGCCAA TGCATTAAAC TACTCAGCTT TTGTGCCAGC TCAGGTGTTT
ATAGGAACAG GAATGTGGAA TACCAGCTTT TTACTTTAAT TATACTTTTA TGCTGAATTT TTCTCCAGT TAAACCTTTA
ATTACACTAG TATGTAAAGT AGTTACTGAG AAAAATAAGT TTTTGATTTT CCTTCTGTG GATCTGTAAC ATTTTAAAT
GGAGCTATTT AACACATGAC ATGCTAATGT TACTTAATGG GTCTCTGCAT TTTAATTTTA NGAAACACAA ACCTGGGTCA
CAAAACATCT TCAG

SEQ ID NO:1786: (Length of Sequence = 397 Nucleotides)

GTTATTCCAA CCAAAATTTT CTAAGATTGA AATGCAGAAA CTTACAGAAT TGAGTAAAAA GACAAAAACG TAAATACTAA
ATATTGAAAA GATGCAAGTN CTCCCAAT ACACATCATG ATTTAATAAA ATTCAAATTT AAAGGCAATT AATTAGGGAT
GAGGCAAGAA TCTGGGAAGA AAATTAATCT GAAGTTTGTG TGGAAAAATC AATGGGTGAA ACGAAATAT TTTAGGATAA
GATTAATGAG AAGTAAATTT ATTTCAATTA TAAANGTAAA ATGATAAAAT AGTTAGACCT ATATGGTACT GATGCCAGGN
ATGTTATACA AAGCTACGTC AAGGCTTGAG GATAATTTTN TTGAAGATAT TCGTGGGTAT CTCATTGGCT ATAAAG

SEQ ID NO:1787: (Length of Sequence = 408 Nucleotides)

TCCACAATTT GACAATATAT ATGCAATGTT TTAACCAAA TCCAGAAAGC TTAACAATA GAGCTGCATA ATAGTATTTA
TTAAAGAATC ACAACTGTAA ACATGAGAAT AACTTAAGN TTCTAGTTTA GTTTTGTGTA ATTGCAAATT ATATTTTINC
TGCTGATATA TTAGAATAAT TTTTAAATGT CATCTTGAAA TAGAAATATG TATTTTAAGC ACTCACGCAA AGGTAAATGC
ACACGTTTTA AATGTGTGTG TTGCTAATTT TTCCATAAG ANTTGTAAAC ATTGAACTGA ACAAATTACC TATAATGGAT
TTGGGTTAAT GACTTATGAG CAAAGCTGGT TTGGCCAGAC AGTATACCCA ANCTTTTATA TAATATCCAG ANGGCTATCA
CACTGTG

SEQ ID NO:1788: (Length of Sequence = 391 Nucleotides)

CAACTTGGAA CAACTTTTAA TTTTGAATGC TGGTCTGATC AGTCCACGGC CAGGGGTAGG TGGTAACTAG AAACAGCTGG
AAGGAGGGAA GGAGAGGGGA CCAGCAGTCC GCAAGCAGGA GGAAGGAAA GGGTTGGGA CAGGAGGAGG CAAGGCTGAG
GAAGGACCCA GCCAGCTGGG TGTCTGCCCC GGCTAGAGAA CGAACCACCC CCACCCACCA GGCTACCTTC CATCTGTGGC

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TTCAGTGCAG AAGTCAGTCC AGGTGGGTTC AGGCCCATGC CACCTTCTCT GGCCTGCACA GTCCCAACCC AGGCAAGGGG
TTCTTTCCAG AAAGGCTAAA TGCTCTGTCC TAANCCTNGG AAGTGTCCCT TTCAACTAAA CCCCTGGCCT T

SEQ ID NO:1789: (Length of Sequence = 312 Nucleotides)

CAGGGTGAAG TGAGCCTGTG TGGGAAATGA GTCTAGTGTG AGGAGGCCTG GCTGCTATAA TGATATTTAT CTCACAGTTT
ATATTTTCAAT CATTATATAT ATTTTITTTAA AAGGTTTCTT TATCAGCTAC TAAACATCTC AGCAATTTGG TGTGCATAGC
TCTAGATTAA GCAACAAAGA ATTGTACTGA TAACAAACCA CAGGGGAAAT GGTTGGTTAGT AAGAGTCAGC CTTATAAAAT
TTACATCCAC ACTGTTTCAC AGCAAGATTG CTCTCTCCAA AACGTAGCCA TCAAAAGCAG CAAACAAACC CT

SEQ ID NO:1790: (Length of Sequence = 281 Nucleotides)

TGTTTCCYTC ATTAGCTGTA GACTATCCCC TCTCCTCCCA CCACAWTGT TCTWTGATGA KTTACAAACA GAAAGGAAAT
CACATTTTCA TACTAAAAAC AAAATGWTC GAGCCTTGAT TTYTCCACTA GAACTACAC GTACAGTTAA GAGTCCACAT
GCAACACCTT AAWTCACAGA CTGAGACCTC ACATTYTGAC CTGGAGNITC CTCCCCTTCC CCAGCCTTGG GCTAGCTTTG
GCCTAGGCTC AKGTAATACT GACACCCACA GCGCTGCTC T

SEQ ID NO:1791: (Length of Sequence = 261 Nucleotides)

AGGCAAGCA GAAAGGTGTG TTTGCCAGAC CAGCATGGGC AGCTCAGAGG GAGCAAAGCA TCCACCAGAA GAGGCTCTCC
ATTTTITTTGT AGGGCCTGAC AGTTGAGATT TGAGGCTGAG TTAACAWTGG GACCACTGAA CTTTTTTCCA ATGGAAAAAT
CACGGCCAG TCCACAGGA ACTTTGCCGC ATACCAAACA ACAWTGAGGA AGGAAGGGCC GGGTGGCTCT ACCAAACAKT
TCAGGTCCAC TGGGTGAWT A

SEQ ID NO:1792: (Length of Sequence = 324 Nucleotides)

CTCCATCTTT ATCGCTGTA TAAACATCTC TGGTCTGTAC ATACATTTCA TACATCGTAG GGTGGGAAGC GAGGGCCAAA
GGGAGGCCCC GCAGACAAC AGCTACCCG CTTTCCCTAC AGCCTACCC GCTCTGTGCA AACCAAGGCC AACAGCTCCT
GCTGCCCTTT CCTCCTGGA AAAGTCACTG TTATGGGGAG GGGGCCAGG GTTGAAGGAT TAGAAGGAGA TAGAGGGCTT
GGTGGGGAGG CCACATNTAA GTCTAGATT CAAACACTGA AGCGAAACAG GCAACTGGCA CAAGCAGCAA GCTTAGGCAT
GGGC

SEQ ID NO:1793: (Length of Sequence = 386 Nucleotides)

ACTCTTGGGG ACCCAAAGAT GTCAGGTCCC CATACTCTGA GGAATCAGGA CACAGCCCAG TGCTTGACAC CACAGAGTGA
GGCAGCCCTT CGGGTGAGGG CCTGGGCCTC GAGGGATGGC AGCCACCACT GCCTAGGCAA ACGCACCTGG GGCTGAACCT
GGCGCCCGGC ACTTINAGGA CGCCAGCACC AGTGGGCACT CGGAAGTGCC AGTTCTGGCC CAAATTTGGT GACCTGGGTC
AGAAGGACCT TTCAGAATGA NTGTTCCTG TCAGCAGATA CCGTCAAGAC ACGGCTGGCT CTGAGAGGGG CTGGGTGCC
GTTTTCCTG TATTCTCTG GGGGCCAGCA CGTCTCAGAG GGTGTCCCTG TGGGTCCCG GGTCA

SEQ ID NO:1794: (Length of Sequence = 308 Nucleotides)

GGATGCTCTT TAAACATGC AAATGGGCC GGGCACAGTG GCTCATGCCT GTAATCCCAG CACTTTGGGA GGCCGAAGTG
GGTGGGTAC CTGAGGTGAG GAGTCAAGA CCAGCCTGGC CAGCATGGTG AAACCTCATC TCTGCTGAAA ATACAAAAAT
TGGCCAGGCG TGGTGGCATG TGCCGTGAAT TCAGCTACT CGGAGGTTG AGGCGGAGA GTGTGTTGAA CCCGGAGGT
GGAGGTTGCA GTGAGCGAG ATTGCACCAT TGCACTCCAG CTTGGGGTGA CAGAGCGAGA CTCTGTCT

SEQ ID NO:1795: (Length of Sequence = 418 Nucleotides)

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GAAACGCTAA GGTTTTGACA GCGTTACAGT GAATTCTCCG GCTGTAGAGA TTGGAGGAAG TOGGGAGAAA TTCGTCTCTA
AGTTGTAAAG TGGAAACAGCA TTCATTTTCT TACTGCCAAT GGAGGTTTTT CATGAATTTA CTAACCTAGT AAAAAGATTG
GGCTTTTTTT TTTTAATCTT AAAGGATCAC GCTTTAAACC TCTGTAAACA AGTAATTATT TGTACCACTC TCTACCCAC
CCTCCAACA AATAACCTAT CGGNTCTCAG AAAATAATAA CCCTTTGCCT GCCTTTGAAA TAGTTATCCT TTTTAGTATG
ACAGTGTICA AAAATCTCTT TCTTAGACTT GTAGCAGAAC ATAGCTATGA TGATCTGAAT TTTTCTCTT CAGCTGTTC
TAAGACGAGG GGGACTCC

SEQ ID NO:1796: (Length of Sequence = 416 Nucleotides)

CTTTATFACA TATGCAACCT TGCCATGCCT GCCAGTTAAC TCCCTCCCG CCAATGTTAT CCTCATGATA TCAGCTCCCT
CTTGGGCGCA CTGAGCTGCC CCCCTTCTCT TCTGGGCTGG AGTAGTGGTG CCCCTCAAGC AGGCAATGGG CAGGGGGAGA
TCCACAATTA ATCGTCGCAG TTCTCTTAAA AGTATTAAACA CTAAATAAG CACTCTTGGG GAGTTGCAAA GGATATTGAG
GATGGGATGC AGTGGGAGGC TACCCCTCAT CCAAGGTACA GGCTGGAATG AGCTACAGCT GGGTCTATCG TGGGCTCAG
AAGGTGAAGA GGGACCTAT TCTGGGCTT AGTGTGGTG GGCATATCC TCCCAAACCT TGTTCTGTGG GCGATGTTCT
TCACATCTAG GAGAGC

SEQ ID NO:1797: (Length of Sequence = 298 Nucleotides)

AGGAGGGAAA CCAGAATCAA ACTACTACTT CTAGATGAAC ACAGGCTCTT GAGAGTCCC AAGAGAGGAG GCTGTGATC
CAATCTGAC TCAGACTACC TACCTGGCTT CTTGGCCCTA GGAGGTAATA ATGATAGTNT CAGGGGGTCC ATGTAGCAAT
CCAAGCAATT CCTGAGGTGA GAGCAAGCAA AGAGGATAGG ATGAAGGGAA GGCAGGCAAA GAATGTGCTC CTAGTAAGAA
GCAACTCTNT TCCACTCACT TCCTTTGCT CTNITGGCAGG CAAGTCAACT GGGTCTC

SEQ ID NO:1798: (Length of Sequence = 245 Nucleotides)

CTGGTCCATT TTTACAACAN ATACATCCAA AACACTATAT AATANNITTT TTTACAACAT TTCCAAATGA GAAGATTGCT
TTTCCCCCA CTACTGCTAT TCACACACAG TACTTCCAG GCACAATACA TTAGGAGATC TAAAANTGCT CACCCGTGAC
TCTAGGCTGC TTAGGAAATG TGAAACTAG NAACATTTAT AATGGCATT GCTCCTTTCA ATACAAGGCA ACATTTTAGN
AACCT

SEQ ID NO:1799: (Length of Sequence = 312 Nucleotides)

GAAATGTTAG GCTAGTTAGA AGGACACGGC AATAGCCTTG AGATTYTCAA CCAGGGTAGT GTATTAGAWG TAAAAGGAG
AGGAAAGATT TGAGAGTTAT CTCAGAAACA GAACCATCTA ATTTTTTGG ACTGATTGA CTGCTCTTC ACTCATTTTT
TTATTCACTC AACAACATT TTTGAKTENT TTGGATGGGT CAGACATTGC GCTAAGTGAA AAATAGGAAG GTAAGAAAAA
GAAGACTCTG AAGATGAATT CCTCCCAA AACTGAGCTA CTAGCTATTA CTCAGTGGGG CTGAAGTGAC AC

SEQ ID NO:1800: (Length of Sequence = 309 Nucleotides)

GGCATGTGAC ACTAGGCCAC AAGCGATAAG CACAGGCACC TGACTTTTAA GTTTTGTGTT GTTTGTGTT TCCCAAAGTG
CTGATAACAA TAACAACAAC AATAGGATTC CAACAGGNG CCTCAAGTGA CAGCCAGGNA GAGACCTGAA GGTGGGGCC
ACCAATGTC CAAATCGITT CTAAAGGAAG CTGAAAATG GGACTGTCTT TTGCCACTT CGTGTGTGTA AAAGGGGACA
TTTGTCNAAA CTNCCCAACC GAGTTCTAGA AGNTCTTGAC AAGGAGGCAG CATCCAGCCT TGACCAGGC

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SEQ ID NO:1801: (Length of Sequence = 166 Nucleotides)

CAAAANTTAC TCTGCAAAAT TAATATATGA TTTACCTGCT GTTTCATATA GATTTCCAAA TAGACAAACT CGGTATGCTT
NCGATTGCTT TTACATTCTA AGTGGATTGG GAGGTTCCAGG CAGGCGCCAA GGAGTACGCC GAAGTTTCAT CANGCGGAGA
TGTTGG

SEQ ID NO:1802: (Length of Sequence = 281 Nucleotides)

GGTGGATGTC TTTGGGCGCA GGATGGAGCC CAGACCCAGT GGTACAGTG TGGAGCTCTC TCCCTGTCCC CTGACTCTGG
CCAAGGAAGT GAATGCAAAG CAGCAGGGAG GAGGCAGGGT GGGGACGGCC CTCTGAGCTC TCCGCGATGG CTGGCGTGAG
GTGCTCTTAA GACTTCTNGG CAGCCCTGCC TTCCCTACTC AGTCTTCCCG ATCTTNTTGC CACCTTTCTG TGTGGGCCAG
NCTCCGCCA GGTACTCAGA GGCCGCTCAG AGGGCAGGGT T

SEQ ID NO:1803: (Length of Sequence = 429 Nucleotides)

TTACAGTTA TAGTTGGGGA CATTAACAAC CCTTTCTCAA TAATTGATAG ACTACTAAAT AAAAAACCAT GAAGGATATA
CAAGAACTGT ACAACACTGG CCGGGTGTGG TGNCTCATGC CTGTAATCCC AGCACTTTGG GAGGCTGAGG CCGGTGGNTC
ACTTGAGTTC AGGAGTTTGA GACCAGCCTA GCCAACATGG CGAAACCACA TCTCTACTAA AAATACAAAA AAATTAGGCT
GGCTGTGGTT GGCTTAATGC CTGTAATCCC AGCACTTTGG GAGGCCAAGG TGGGCATATC ACCTGAGGTC AGGAGTTTGA
GACCAGCCTG AAAACATGG TGGAAACCCA TCTCTACTAA AAATACAAAA ATTAGCTGGG TGTNGTGGT CTGAAAAAAT
TAGGTAACT CCGTCTCAA AAATAATAA

SEQ ID NO:1804: (Length of Sequence = 278 Nucleotides)

GACCTGAAGC TCAAAGTCTC TCTCCTTACA CAACCAGCGN CAACAGGGCC AAGCTACTGG CTAAGAACAG ACAAACTTTC
CTGCTTCAGA CCACAAAGCT GACCCGINTT GCCAGACGCA TGTGCAGGNN CTNTTACAG CCAAGGAGGG CCGCCCGACG
GNCITATGCT CCTATCAATG CCAATGNCAT CAAAGCAGAG TGCTCCATTG GNCITCCTAA GNCNCNCAAG ACTCCATTNA
AGATTCAACC TCCTGGTGGC GCTGNCCTG GGAACAT

SEQ ID NO:1805: (Length of Sequence = 349 Nucleotides)

GCATCCATGG CCGAGGGCGG CAGCACGACG GCGGGGCGAG GCGGGCTCC GCAGGTCTGA ATCTGAAGGA GTGGCTGAGG
GAGCAATTTT NTGATCATCC GCTGGAGCAC TGTGAGGACA CGAGGCTCCA TGATGCAGCT TACGTGGGG ACCTCCAGAC
CCTCAGGAGC CTATTGCAAG AGGAGAGCTA CCGAGCCGC ATCAACGAGA AGTCTGTCTG GTGCTGTGGC TGGCTCCCTT
GCACACCGTT NOGAATCGG GCCACTGCAG GCCATGGGAG CTGINTGGAC TTCTCATCC GGAAGGGGGC CGAGGTGGAT
CTNGTGGAGC TAAAAGGACA GACGGCCCT

SEQ ID NO:1806: (Length of Sequence = 403 Nucleotides)

GTGCACTGTG GCCAGATCTT TTCTAGTAAA ATGTGTGTTA CTGATGGGCA GACAGCTCTC ATTCAAGCAG TGACAGATGT
AAGCCTTCC CATTTTGTG GCCCCATGT ATTACAGCTG TGGCTTCCAA GTTGCCTGGG ATCATCTCCA CCCAGACTAA
GGAAGAGGAA AGAGCTTGA CAACTGCACT TGGCTGGTTT TNATGGATCA GGCAAGGAAT TGGCTCCAAC ACATTAGCTC
ACATTCCATT GGTAGAACT GGGTTCTCA ACTATTAGTA CAGGGTGGAG GTAGGGTTT GGCACCATGG GCAITTTAGC
TGGCCAAAGG CTAATCAGAG TTAGAACAAA GCCACAAAGC CTGTGAATGG TGTTTATTGT TGTGAGGAGC TGTCTGTGTC
ATT

SEQ ID NO:1807: (Length of Sequence = 426 Nucleotides)

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GTCTCAGCT TCACTCTGGC ACCACTGTGA GCACCGGGAA ACCTACCAGA AGTTGCTGGA GGACATCGCT GTCTTGCAAC
 GCTTGGCTGC CCGCTCTCC AGCGAGCTG AGGTGGTAGG CGCCGTCCGC CAGGAAAAGC GCATGTCGAA AGCAACGGAA
 GTGATGATGC AGTATGTGGA GAATCTAAAG AGGACGTATG AGAAGGACCA TGGCGAGTCA TGGAGTTTAA AAAGCTTGCA
 AATCAGAATT CAAGCGCAG CTGTGGCCCC TCTGATGGG TCCCTCGCAC GGCACGGTCC ATGTCCCTCA CGCTGGGAAA
 GAATATGCCT CGCCGGAGGG TCAGCGTTGC TGIGGTTCTT AAGTTTAAAG CCCTGAATCT GCCTGGGCAA ACTNCCAGCT
 CATCATCCAT TCCTCCTTAC CAGCTT

SEQ ID NO:1808: (Length of Sequence = 431 Nucleotides)

GGTACTTTTC CATTTAGATT CAAATGGAGC TAAATTAAG AGTTTTATGA GCTGTTAAGA ATGAGGTAGT TTCTCCTAGG
 ACCCCCCAAA GACAGTGCAA GTAATGACCG TTGNGTCTC ATTCGTGCGAT CTTTGATAGT ATGINTCGGA GTCTACTCCC
 CAGGAGCCAG GACAGCGGTG AAGATGGAGT CCTGTGCGCA GCTGGAGCCT TGCCTAGCTG GTGATCACAC AGCCTGNGCT
 GTACCTGCAC CCCACTGGAT GGTGGTACAT GGTGGCAGGG ACAGGACCAC ACCCAGTTAA GGCCAGACCA GGCTGAGTGT
 GACCCCTGAG GTAAACACTT CACTAAGCTG TGCTTGTTC ATGCCCTCG CTGAGTGAAA GGTGAGTCCC GAGACCAGTT
 GGGTACCTCT CTTATGCGAA CCAGAGACAT T

SEQ ID NO:1809: (Length of Sequence = 401 Nucleotides)

CGTGAGGCTT TGAGCACAAG TGCAAGCGGG ACATCCTGCT CGGCCGGCTC CGGAGCTCGG AGGACCAGAC CTGGAAGCGG
 ATCCGGCCCC GGCCCACTAA GACCAGCTTC GTGGGCTCCT ACTACCTGTG CAAAGGAGGA GATCGACGTG TGGACCGAGG
 AGCGGAAGGG CACCTCAAC CGGACCTGC TCTCGACCC GCTGGGGGT GTTAAGCGCG GCAGCTCACC ATCGCCAGC
 TCTGAAGGA GCACAGGGG ATCTTCACCT TCCTCTGCGA GATCTGCTTT GACAGTAAAC CCGGATCAT CAGCAAAGGC
 ACCAAGGACT CTCGTCTGT NTGCTTCAAC CTGGGCTGCC AAGAACAGCT TMTACAACA ACAAGTGCCT GGTGCACATC
 G

SEQ ID NO:1810: (Length of Sequence = 233 Nucleotides)

AAGTGCTATA TTCATTGAT TATAGAGAAG GTTGGGGAGC ACAGAAGAGG ATCAACCCAG CTTTAGAAGG ATTAGAGAAA
 GCTTCCAGAG GGTGGACAT TTGAGCTAGC AAGAAAGCAC AAGGGAAAAG GCATTTAGAC AGAGGAGACA ATTTGTCTGT
 ACCCAGAAGC ATTGGGGTAT GCTATGCATG GATAGNCAAA GAATTTTTCG AAAAGGGGGG CCAGCAAGGC ATT

SEQ ID NO:1811: (Length of Sequence = 423 Nucleotides)

CAAAGAAAGA GTTGAACATAT GTACATTGAA AAAAGGAAAG ACATTTTTC ATACCAACCT TTCCCTAGIT CGCAGTTTCT
 GAATAGTAGA AACAAAACAC ATTTTAAAT CTTCTATCA ATTTAATTTA GGACGAAGTA ACACAACCTT TATAATTAAC
 CACTGAAGTT GTCTTTAAGG ACAAACCTTA AATTTTAAAA TGGGTGTTAC CATATTINAT GAGTGGACTG ACTCCAAGGT
 TGCCTTGCTC CAAGNNTGGG CATCGTGACA TTGCCGTGAT GCCCAGAAGA AAGTTAATGG CAATGATGTC CAGTCAGAGG
 GCAGACATGC TACACATCAC AATGATGAGA GCTGCGGGAT TCTGCCCTCT TCAACTTCCA AGTAGNAAAT TATTATTTTC
 CATTCAAAC TACTGGGAGT GAG

SEQ ID NO:1812: (Length of Sequence = 394 Nucleotides)

GACCAGCCTG GCAACTTAGT GAGACTCTGT TTCAGGAAAA AAAAAAATAA GTGTATTGG CTGTCTGAA GCAGGCCATC
 ATCACCCTTC ACCTACCCA CAGGTGGCTC TCGGGGCTG GTCCATGGC GCTGTGGCG TNAGGATGGA GTCTAGCTG
 TGACCTGTGC CCAGGAGGGC GTGATCCGAG TGAAGCCCCA GGTCTCAGAG AGCAAGCTGT AGCCAGAGGT ACCAGCTTCG
 CCTGGGGCTT CAAGAACCTC CCATCTATCC CCATTCCTGA GACAGGAGTT ACAGTCCCTT TTGGNCTTNA CATCCAATAA

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AGAGACTGAT ACCACTGGAG TGGCTGGCTT TTAATTCGCC TGGGCCAGAC CTGCAGCCIT GCCTTAATCC TTAA

SEQ ID NO:1813: (Length of Sequence = 344 Nucleotides)

CATCAGCGAC AGGTCTCCCT CCCAGAACCC CATCAGGACA GGAGAAAAGG CAGCAAGAGA GGTGGGGTGG TCCTGGCACC
TGGGCCACCA GINTTCTGAA TGAAGAGTGA GTCCCGGGTC AGGAGTCCAC ATCAGGTGTG GGCTGCTTCC AATCTGTAGG
TTCTCTCGGA GATTNTCACA ATCTGCCAGC TCTCTGGGAA TCACAGAAC ATCATGTCCC CTTAGGATGG CAGAAGATGT
GGCAGACCT CAATCTCCAA CACTGAAACA CTNAGAGAGC TTGATACGTT CCTTAGGCAG GGCAGAAACA TCACAGCACT
TCACGNTAGG AACCACGAAA GAGT

SEQ ID NO:1814: (Length of Sequence = 442 Nucleotides)

GACACAGCAG GCCCCTGCCC CTGAAGGAGA CTGCATTGGA ATTTTGGCCA GGTGGCCCTG ACACATAGGA ATGCCCAACT
ACTGTGACTA CCCTCTGAGA TAAAAGCTG TCCTACTGAT TTTAGAAGGC CAAAATTAGA GGTCATTTTG GAGGTCATGC
CAGTGGACAT ATAACAGTTT GAAATGCTTG TTCCCCGGTG CCGTAAAGAA ATAGTACTTG AACTTAAATT TATTAGCAA
GGCATTTTT ATTTTCTGCA GAAAGGGTAC ACTTGGCAGC AGTTTINCCA CGAGAGTACC CGAACAAG GAGACAGGGT
CATTTATAAC CTGACGGTC CACCCTCTG CTGTGTCCG TTTCCATTGG CTGGAACAGG ACCTCACATT CTGTATTGT
CCCGATTGGC TAGCAACTTA GGACTTATTA AAAGAGGCAA AG

SEQ ID NO:1815: (Length of Sequence = 299 Nucleotides)

GCAGAGAATC CTTTGAACTT GGNAGGCGGA GGTTCAGTG AGCCGAGATC ACGCCACTGG ACTCCAGCCT GGACAACAAG
AAGGAACTC CATCTCAAAA AAAATTGAAA AAAAATTCAN GANATACAGA ATGCAAAANG GGACCAAAAA AGTACCAAAA
ATTTCAAAT TTTGTTAAAC TGTACCAAAT CTGGNTACGA AGCGTTATTT TTGCCACAG GGCATTCCC TGGAAGNCG
TTACAATAGC TNAGGCTTCC TCTTCAGATA GANTTAGAGT GGCAGTAGGA TAGGCTCTT

SEQ ID NO:1816: (Length of Sequence = 286 Nucleotides)

ACCCCGGGTC CCAGGTATGC TCCCACCTCC ACCTGCCCA CTCACCACCT CTGCTAGTTC CAGACACCTC CACGCCACC
TGGTCTCTC CCATCGCCCA CAAAAGGGGG GGCAAGAGGG ACCAGCTTAG CTGAGCTGGG AGGAGCAGGG TGAGGGTGGG
CGACCCAGGA TTCCCCCTCC CCTTCCCAA TAAAGATGAG GGTACTAAAG TTGCTTGGT TTTTATTTTA TTATTATTTT
TTTCTTTTTC CAGTATACTA GCTTGTCTTT TAAGAAAGGG GATATT

SEQ ID NO:1817: (Length of Sequence = 320 Nucleotides)

GAAAGGAAGG CCAGGGTGGG AGGAAGGATC AGCTAAATCT GAGGGAAGAA GAAGGAAAGG AGAGGGACTA TTGCATAGCA
GATGCAATG AAGGGACTGT CTTATTATAC AGTTTATCA TCTGTTAATA CTCATAATCT TGTTCTTTT TCAACTTTTA
TATAATTTTA TCTTACATT AGTTAAATCA AAAATCTTAA AACACATTTT AAACGTGGTC ATAGGTTACT TTTATATATT
ATTGAATTTA TAATAACAT GTTCTTTNC TGGAAGCTGG GATGNNACN CGATGGTGT TCTTGAATAT AAGAGTGTCC

SEQ ID NO:1818: (Length of Sequence = 356 Nucleotides)

CCCAGGAGGC TGAGGCAGGA GAATCGCCTG AACCCTGGAG GCAGAGGTG CAGTGAGCCG GGATTGTGCC ACTGCACTCC
AGCCTGGTGA CAGAGCGAGA GTTCATCCAG ACACACACAT ATATATATAA TTNCCAAACA GGCTTTACTA AACCCTCTGA
GGTCTCATGA CACAGTAGAA AATCATGATT TAGTAGAAG AGCATGGTC TAGGAATCCA GTAGATCAGT AGACCTGAGT
TAGAGTCCA AATCTGCCAC TTCAATCTG TATGGCTCA GGCAAGTAC TTAANCTTC TGTCCTCTG TTTCTTTAT
AAAATGGGGG ATAATAATAG TAACTTCTC ATAGG

401

SEQ ID NO:1819: (Length of Sequence = 328 Nucleotides)

CCACTCCTGT AACCTGCTGG ATGACTCTGC ACTGCCCTTC TTCATCTTCA CCAGTGTCTT GGGTATCCTA GCTAGCAGCA
CTGTCTCTTT CATGCTTTTN AGACCTCTCT TCCGCTGGCA GCTCTGCCCT GGCTGGCCTG TCCTGGCACA GCTGGCTGTG
GGCAGTGGCC TCTTCAGCAT TGTGGTGGCC GTTTTGGCCC CAGGGCTAGG TAGCACTCGC AGCTCTGCCC TGTGTAGCCT
GGGTACTGT GTCTGGTATG GCTCAGCCTT TGNCCAGGCT TTGCTGCTAA GGGTGCCATG CCTCCCTGGG NCACAGACTG
GGTGCAAG

SEQ ID NO:1820: (Length of Sequence = 359 Nucleotides)

CCACCATGCT CTGCACTCGC NCTGGTACCA GGCCCGGAC CTCATGCTCA TGAGCCACTT GCAGGACAAC ATTCAGCATG
CAGACCCGCC AGTGCAAGAT CTTTACAACC GCACCATGGT GCAGCTGGGC ATCTGTGCCT TCCGCCAAGG CCTGACCAAG
GACGCACACA ACGCCCTGCT GGACATCCAG TCGAGTGGCC GAGCCAAGGA GCTTTTNGGC CAGGGCCTGC TGCTGGCAG
CTTGCAGGAG CGCAACCAGG AGCAGGAGAA GGTGGAGCGG CGCCGTCAAG TCCCCCTCCA ACTGCACATC AACCTNGAGC
TGCTTGAGT TGTTTTIANC TGGTGTCTGC CATGTTCTT

SEQ ID NO:1821: (Length of Sequence = 208 Nucleotides)

CCTGGGTCTG TGACCCAGAG TTCCAACACA AAGACACTTT GTACTGGAAC GCTGGAGCCA TTCCAACATG AACAGCAAGA
ATAGAACCTG TGCTGGCTGG TCTAAGATCA AACCTCGNGA TGGTGGTTTG AAGTCTTCT TCAAAGAAAG CTTGAAAATG
AAATCTCAGT TAGGCAAGNC AGATAAAAGC AGAGTTATTC TGGTGGCG

SEQ ID NO:1822: (Length of Sequence = 314 Nucleotides)

GGATGINTTG AGCCAGAGTT TAAGCCTGAC ACACAGGCTT TGGTCTCAC TGAGCTGTCT CCAAGACTGG AACTACTTAG
TGACTCGGCA AATTTTCTGC CCCCCACCC TCATCAAAGC TGCTAGTTCA GATGTTGACA GTGTTTTCAT GAATGTTGGA
ATCTTACTAG TCCAGACTTA CTTAGGATGT TGTGGGGAA GGCACPTGGG ATTTTCTGTG TCTTGCAATC ACAGAGGGAG
GCCATTCAG ATTCAAGAGC ATTKGATTAG GGGATCGTGA GGCAGGGATG CTACTGCGKA TTTCTCTCTT CAGG

SEQ ID NO:1823: (Length of Sequence = 344 Nucleotides)

AACAATTTTG TCTTTACTAC ATCTTAAAGA ATTAGAATT GGGTTGGTGT AAGTGACTTA CTTCCAGGNN ATCATGCTCT
ATTTCTACCA GCAGGTACATA CCCNAATGTC AACTATCTA TTGTTAACCA TGAATGNTAT TCAGATCTAT TACTTTTCTG
GAAAAGTGA ACATGTTACT TCCAACCATG GCCTGTCACC GTGAGTGTA TCANCTTNT CAAAACCAC ATGGGTGCGA
GGAGCTAAGG GGTGGTACCC MAATGTTAGG GACAGTGTA GGGAAAGGCA AGGGAAAAGA AGTGACTNGA TGTCTTATGA
GRAACCCGTA AATGGCTTAA AAAA

SEQ ID NO:1824: (Length of Sequence = 340 Nucleotides)

GTGAGTGGCA GGTATCATGA ACCACATTGT GGACCTGGAG TTGCTAGGAC CTTTCTGCC ATTACACAGA AAAATCCTCC
CTGAGAACAC AGCCATNGA GGNACATGG CAGAGGAAGA TAAGACAATA AACAGAGNCA CATAATTATG GCCAGCGTGG
GGGCINACGG CTGTAATCCC AAAACTTTNG GAGGCCGAGG TGGCAGATC ACCTAAGGTC AGGAGTTGGA GGCCAMCTG
GGCAACATGG TGAAACCCGT CTCTACTAAA AATACAAAAA TTAGCCSGGC GTGGTGGCAC GGGCCTGTAG TCCTAGCTAC
TCAGAGGGTT AGGCAGGAGA

SEQ ID NO:1825: (Length of Sequence = 357 Nucleotides)

AATTTGGTTG TGGCCAAATT CTCAGTCCAA TCACCTGGC CCAGGGCCTG GCGTGGGAGG ATGTGGCAGG CTCTGTCTCC
TTCTGGGGTT CCTGGTCTGG AGGAGTCTCC CCAACAGCGC CAAAGCTGGC TGTTTTCCGC CCAAAGCCCC AGAACTTTGA

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ATGAGAGGCA AATCTACCTT GAATGCACCT CCTCCTAGG CTGGGTGAGG TCACGCAGAC ACAGAAGGGC AGGACAGAAC
TCCCCATCTT CTGGGGGCCA ATTCGTCTGG AACTGTGCG GTCACTTCC TTTTAAAGT GCCAGTATCG GTGGGGCAGG
AAGGGACTCT CAGGGCTGAG CAGAGCCTTC TTCAGCG

SEQ ID NO:1826: (Length of Sequence = 207 Nucleotides)

CCGGCCCCCTT CAGTCCCCAG CCCCTGCCCC AACTCCGACT CCTGCACCCA GCCCGGCTTC AGCCCCGATT CCGACTCCCA
CCCCGGCACC AGCCCTGTC CCAGCTGCAG CCCAGCCGG CAGCACAGGG ACTGGGGGGC CCGGGGTAGG AAGTGGGGGG
GCCGGGAGCG GGGGGATCC GGCTCGACCT GGCCTTAGCC AGCAGCA

SEQ ID NO:1827: (Length of Sequence = 309 Nucleotides)

GTGTGCGCCT GTAGTCCCAG CTACTCCGCA GGCTGAGACA GGAGAATCGC TTGAACCCCTG GAGGCGGAGG TTGCATTGAA
CCGAGATCGC ACCACTGTAC TCCAGCCTGG GTGACAGAGC GAGACTCCAT CTATAAAATA AAATAAAATA AAATAAAATA
AAATAAATAA AATAAAATAA AATAAAATAA AATAAAATAA AATAAAATAA TAAATAAAAA TAAATAAATA TAAATATATA
AATAAAATAA AATAAAATAA GAACCACCAT ATGANCAGC AATCTCATTA GTGAGTATAT ATCCGAGGG

SEQ ID NO:1828: (Length of Sequence = 382 Nucleotides)

ATCTCTGACC ACCCCCTCCT CCCCATCCCA CCTTTGGTA ACTCCCCCGC CCAGGNCATC GCCCAGATAT ATTCTTCTCC
TTGGGCAAGA AGTTCTGTGC ATGCAGGTCA AATCTGAAAG GGNCATTTCT TTCTTTAATG AGTGTACAGG ATGGGGGATG
TGGCTGATGA TATAAGGGGC CCTCCAATCA GACTTTCTAA TCTAACTGAA AAGNTAATTA CAATGTGTAT GCTAAAAAAG
AAGGTTCTGG CAAAATAGAA CTCTGAAGC ATCATAAATC AGATGACTAA TATTTGTGAT CCCCNITTA ATTTTCATGT
GAAGAAGAAT AGGGGATGTA ACTGAAGRAA TGNACTAAAA GTTCTTCTAT GTATTGATAA CC

SEQ ID NO:1829: (Length of Sequence = 361 Nucleotides)

GGCGCGCGCT CTGGAGCTGG ATGTCCAGGC TCGGGCGCT GCTGGGCTC GGGCTGCTGG TTGCGGGCTC GCGCTTCCG
CGGATCAAAA GCCAGACCAT CGCTGTGTC TNGGGACCCA CCTGGTGGGG ACCNCAGCG CTGAACCTCG GTGGCCGCTG
GGACTCAAAG GTCATGGCGA GCACGGTGGT GAAGTACCTN AGCCAGGAGG AGGCCAGGC CGTGGACCAG GAGCTATTTA
ACGAATACCA GTTCAGCGTG GACCAACTTA TGGAACTKGC CGGGCTGAGC TTTGCTACAG CCATCGCCAA GGCATATCCC
CCCACTCCA TGTCCAGGAG CCCCCCTACT GTCTTGSTCA T

SEQ ID NO:1830: (Length of Sequence = 180 Nucleotides)

AAGAACGTTG GCTGCCTGCA GGAGGCGCTG CAGCTGGCCA CTTCCTTCGN CCANCTGCGN CTCGGGGATG TAAAGAACTG
AGTGGGGAAG GAGGAGGCTC CCACTGGATC CATCCGTCCA GCCAAGAGCT CTTCATCTGC TACAAGAACA TTTGAATCTT
GGGACCTTTA AAGAGCCCT

SEQ ID NO:1831: (Length of Sequence = 335 Nucleotides)

AGATCTTCTA TATTCGACT ACTGATTCAA ATGCTAATCC TGGACGGGCA TGGTGGCTCA CACCTGTAAT CCCAGCACTT
TGGGAGGCTG AGGCTGGTGG NTCGCTGAG GTCCGGAGTT TGAGATCAGC CTGGCCAACA TGGTGAAACC CTGTCTCTAC
TAAAAATACA AAAATTGCT GGGCGTGGT ACATGCGCT GTAATCCAG CTACTCGGA GGCTGAGGCA GGACAATCAC
TTGAACCCGG GAGGCAGAGG TTGCAGTGAG TTATTGCACC ATTACACTCC AGCCTGGGTG ACAAGAGCGN AATTCCATCC
CCCCACCAA AAGCG

SEQ ID NO:1832: (Length of Sequence = 337 Nucleotides)

GTATTGGAG ATGGGACCTT TGGAAATGCT TTGATTAGGA AGAAGGAGCT TTCATGAACG GGATTAGTGC CCTTATAAAA
GAGGACGCAG AGAGCTCTCT CACACCTTCC ACTGTCTGAG GNCACAGGGA GAAGGCCCTG TCTATGAACC AGGNAATGAT
CCCCAACCCAG AACACCTTGA TCTTGGACTN CCCAGATGCT CCANATCTNT GAGAAGCAAA TTCTGTGTCT TTATAAGCTA
TCCAATGTAT GGAATTTTNG TACAGCAGCC CCAACAGACT AAGNTATTAA TAAAATAAAG ATGTAAGATC TCTGTGAAA
ATGCACAAAT AATATCT

SEQ ID NO:1833: (Length of Sequence = 244 Nucleotides)

TCTCTCATTG TAAGCACAAA TTGTTCCGTG TCTGGTTATT AAAATCGCTT TGGGTCTATA ACAGCCACTC TGTGCCCCCC
TTTTAATAGA AAATGTTCAT TCTAGCCTGG ATTCTCCTCC ACTGGAGGTG GAGGGTGGGA AGAGAAGGGA GTCAGCTCTG
ACAGCTTACA AACTGGGAAG TTCTGTGCAT CTCAGGGAT TCCAGAGTTG AAGATCTGGT TGTGGAAGC TGGGCGCCCA
GTGC

SEQ ID NO:1834: (Length of Sequence = 322 Nucleotides)

TCCTGTACTA CACCTTTGCC AACATGGCCA TGTTGAACCA CCTGCGCAGG CCCCCGTCTT GCAGTACCTG TACTACCTGG
CCCAGATCGG CATCGCCATG TCTCCGCTCA GCAACAACAG CCTCTTCCTC AGCTATCACC GGAATCCGCT ACCGGAGTAC
CTGTCCCGCG GCCTCATGGT CTCCTGTCC ACTGATGATC CCTTGCAGTT CCACCTNACC AAGGAGCCGC TGATGGAGGA
GTACAGCATT GCCACCCAGG TGTGGAAGCT TCAGCTCCTG CGATATGTGT GAGCTGGCCC GCAACAGNGT GCTCATGAGC
GG

SEQ ID NO:1835: (Length of Sequence = 178 Nucleotides)

ATGAAAGCAC AAAAGAAGTC TATCAAAATT ACAAAAACCT AAAACCGAGT AAACAAACT TCAGAAAGAA TGAAAACAAT
TGGAAATAA CTTCAAGAAA AAAATGTAAA ATGGAAACAA TACAAGANCA ATTTGTGCC TCTGAAAAC AGAGGTTAAA
GTCAGAATTT TTTGTNC

SEQ ID NO:1836: (Length of Sequence = 377 Nucleotides)

CGCCTGGNAC CACACCCAGC TAATTTTTGT ACTGTTAGCA GAAACAGGT TTCATCACGT TGGCCAGGCT GGTCTCGAAC
TCCTGACCTC AAGTCACCCA CCTGCCTTGG CCTCCCAAAG TGCTGGGATT ACAGGCATGA GCCACTGTGC CCGGCCCTTA
TGCTGAGTTT TAAGGGCTGT ATGAGACACC AGGTGGTGGG AGGGAGCTGT TTTGAGAGCA GGAATTTAG GATACTTAGG
AAATTAGAAA ATTAGAGAAG TCATAGGATC TTGGAACATA GGGAGAACCT TAGAGTCCTG TGGAGCAGAA CCCAGCATTT
GTATGTGGAG GAAACGGAGG GCCCAGAGAA GTTGTGACTT ATNCCGGGGT CAATCTT

SEQ ID NO:1837: (Length of Sequence = 388 Nucleotides)

GGAGAGAACA AACCCCTTTA CTGGCCTTGG GCCCATCCCT CTTTCTCCCA CACTGCTACT TTTGAGTTAT CTCATTTTGC
TCCAATAGT CAGCCTTGAC TTTTCTGGGC TTACCTGGGC ATCAGGGACC CATGTTGCAC ATTCAGTTGT CCGATTATG
TCIGCCTTAG AGCGTCTCCT AGGGCAGCCA GTCTGGAACA GTCACTACC TAGGGTCTG GAGCTCCTGC AGTCTGCCAC
TCGCINCTTC TGCCTGATAA CAAATACTAT TCCTTTTATC CTGCAACTC GACCCAGAAA GAGGTGGCTG TCAATGTCCA
AGGCCCCCTG GAAACGAAGG ACTGGAAATN TGAAACCACT GGGCACAGG GGAATGGGTG GGTCTGAG

SEQ ID NO:1838: (Length of Sequence = 369 Nucleotides)

TCCTTTTATG CCAACAATTA ACTGGGAGCT AGGTAAATTT ATTTGGCTAG ATAAACTAC CAGCTAGATG GATTTATTG
GTGCCCTCAT ACAGAATGCT GTAGAAAATG TAAAGAAGAG AAAGCTCCTT CCAGCTAGAA GCACATGGGA CTGCTTCTAG

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GATGGAACA AGTCCTGCTA TTTTCACAAT CCCTAAGNST TCTCCAGGCC TCTGGAGAAC AAAGTAAAGT TGTAAAGATCC
 CCAAAGACAC GGAAAATCCT GGACGAACAG ATTAGAAATA ACTACAAAA ACAAGTTTTT TACTTTCGAA AAGGGTACTG
 CACTGAAACC AAGTTGGACT TTTGGTCCAC CCCAGGGCC CTCTTCAGG

SEQ ID NO:1839: (Length of Sequence = 359 Nucleotides)

CNNGTAGGGA AGAGGACITTT ATTGGGATGT TAGTAGGGAA ACATGAGAGG GTGAATTCCA GGAATAGAC ACTAGGACCA
 AGGTGGCGGT CACCTTAAAG AGCCATAAAT AACTTAAAA AATTAAGGTG AGGAGGTGCC ACGTGGGGAG GCTGCTGGGA
 CTATCTGGGA ATTCTTAGGG ATGGAATTTT GGAATGGAA AGGGGAAATA AGAATTTCCA GCCGINTCAC AAAAGGGTGT
 GAAATGATCA CTTCAAGACT CCTGCTGCC CTAGGCTGGG AGTTGGGGTT CTGGGGCTCC AGGAAGAGGG GAGGTCTGGG
 CTCGGCTTNA AGGGGTGAAG AGGGCCCGGT CAAGGTCGT

SEQ ID NO:1840: (Length of Sequence = 360 Nucleotides)

CCAATGAGCC CAGCCTGACA CATATGGACT GCTGACAGG TCCACTGTCC CACGAGCAGA AGCTGTCACA AAGCTTGGAA
 ATTGCCTTGG CATCCACCTT TGGCTCTATG CCTCTCTCA CGGCACGGCT GACCAGGGGA CAGCTCCAGC ACCTTGGCAC
 AAGAGGGAGC AACACTTCCT GGAGGCTGG CACGGCTCG GAGCAGCTG GGAGCATCCT GGGCCCCGAA TGTGCTCTCT
 GCAAAANAGT ATTTTNTCCC TACTTCAAAA AGGAGCCGGT GTACCAGCTG CCTGCGGCC ACCTCTGTG CCGNCCCTGC
 CTGGGTNAGA AGCAACGGTC CCTGCCCATG ACCTGCACAG

SEQ ID NO:1841: (Length of Sequence = 332 Nucleotides)

GTGTGATTCC ATTTATATGA AATGTCCAGA ACAGGGAAAA CCTATTNAG ACAACAGAGA CACAAAGTCG ATCAGCAGTT
 GCCAGGGGAG GAGGAAGACG GGAGGGGAAA TGATTGCTTC ACGGGTGAT GACAGAATGT TCCAGAACGT GACAGAGGTG
 GTGCTTACAC AACTTCTGG ATGTACTAAA TGCCGCTGAT TGTTCACITT CAAGTGATTG ATTTTATAGT TATTGAATT
 TCATCTCAAT TAAAAAACC AAACACGCA ACTGCTCCCG CCAGCTTCAG CCCCAGGCA GACGGCGCAN CCGTGGGAGG
 GATGCTGAGC CA

SEQ ID NO:1842: (Length of Sequence = 246 Nucleotides)

GCTGGTCAAG GCAGAGTTA CTGAACININ AGTTTCCTCC TGCACACACC GGCATGACA CCTTCAAGTC TGNCCAGCAG
 TGGGTCCAGA AAGTACCTG TGTGCTTGG ACGCAGAGG TACAGTTCTN ACTGTGTGGC ATGGGAGCCT TCANAGTGCC
 CTCGGGAGCT GCCCTGCTC TTTGTCTGNA AAGGTGACTG GGAGGNTAGA AAAAGCAGCG GGCTGGCAIT GTTTGGGGG
 TGGGT

SEQ ID NO:1843: (Length of Sequence = 313 Nucleotides)

ATTTATTGCA AACAAAATTG AGGTAAAGA AGCTGACCCA GAACCCACGC CGTCCAGGC TGGGGAAGTC TCTACTCGCC
 CCACACCAGG CCCGAGCAC CGGGGCCCC AAGCAGCCCC CAGAGGACAG ACGGGCCCTG CGCACTGAGG TAGCTGCATC
 TTAAGCCCC ATGAGTACAA CTGCCCAGG CTGCCCAAT CCCAGAGGG AGGAGGAGAG AGAGGCAGGC AGGGGAGGC
 CCGGCTTCAG GTGGGACACA CCCANACCC TCAACAAACC TTCCAGCCTC TTGGGGCTGG GGCATTCTCT GCC

SEQ ID NO:1844: (Length of Sequence = 274 Nucleotides)

CTTCGCTTCT NAAAAACAAA CTCAGCCG TGCCAGTCGG GACTTGGTCG CCGNCGCTG CCAGAAATGCT CCACTGCCAG
 CCGGCCCCC TGCTTCGGT TCCTTCTGT TTAGTGGCGA CACAGGCACC CAGCTTTGGG GTGGTGCTGA CGCTCCAGG
 GGTGCCAGGA GCCACTGGGA CAGGGTGAGG CTCACAGAG CTCCTGAGG TGCCAGCTC TCCAGGGAGC TTCTGNNCA
 AGGNCGTCTG AGGGATCTGC TCCTTAACCN CCA

SEQ ID NO:1845: (Length of Sequence = 441 Nucleotides)

GGGGAGGGGC GCACACACGA AGGGAGGTGT CAGCCGGGAC CGGAAATCCA ACACGGCAAA GGAAAAAAAA CACAACCCGT
TTCCCAAAGG GAGGAGCAGC AGGAGACGAT GAAGAGAAGG AACAGAACTC TCTGGGCAAT TCTGATGTAC ACCCAGGTAC
AGTGGGGATC TCTTCACITG ATGCCCAAA AAAGGGATAA ACAACAAAA AACGTGAGCA GCCAGCTTCA TTCTCTCTC
TGCTTTGICT CTGCCCAGTG ACTTTGGGTT TTGIGTTGAA GCTCTCTTAA TTCITTGACC TTGAAGTTCC TCAACATCTA
TCCCAGTAGC CTCAGTTTCC ACTTTGCTTC AACTAACATC TTGGACTTTT TTCAGTCTTG AACAAAGGCTA AACCTTTGAG
ATCTTGAAC CCGACTTCAG CCTACTTAGC TTGATACTAC C

SEQ ID NO:1846: (Length of Sequence = 255 Nucleotides)

ATGAATTCAT TGIGTATTTA TTATTCACAG TTAATCACTA CCTACCAAAT GCTATCCGCA GAGTTAAAGG ATTAAGTACA
TAGGTCTTTA TTAAACACT GATTTTMTT TTTAAATATA TACACACAAA ACTTAGTTCA GCAAGGCTTC ATGATATACA
CCAATTCCAA AATAAAACAA TCAAATGGTC CNGGNGTAGA ATGCCAGATT CCTTTTATCA TCTGCGAGGA AAAGAGAAGC
AGGATGAGGA AGAGT

SEQ ID NO:1847: (Length of Sequence = 311 Nucleotides)

CAGGCGACAC GCAGGACCAC TGTTGATTAG AAACCCAC CTCACTCG CAACATTCCT CCCACATCCA CATCCACGAC
GGAGCCAAAT CTCATTGTIN ACCCTCAGTC ACCACCCC CATGGAGC CNETGGTTAC GNCATGGATG ACAGGTGTCA
TGACAGGGA GAGAATTINT CCCCGGATAC CCTGAGG GGNCCAC CCCAGGCTA GGGTGGGAGG ATTTAGAGCA
GTGCAAGAAA CCAAGGAGGA TGGAGCATCC AAAGGAAG AGGCAGGC TNGGGGATTG AGGCAGGAA GGGCT

SEQ ID NO:1848: (Length of Sequence = 311 Nucleotides)

CCACTGGCCT ACATTATAGA AGTGTGTAT GGGGACCTG CCATTGTAT CATGGACGCA GGCCATGACC ATCATCACCA
CCCATTINT TGCTGAAGA GAATCCAAC GCTACCCAAC CATCTGTGTC TGCACTCAGC TCAAATTCTA CATCAGCCCC
TATCATCGG TAGCTGAGGA AATAGTCACA GGTCTCTGCA TTACAGCCTG GTTTGCCATA TCTAAAGCAT CCTTAGTTT
TTCCACAGTC GTCCACTTTG ATTTTGGCAA ATGGNTCCAC AGGAGAAGCA GCAGGGCTNN GTGTGGGGTG T

SEQ ID NO:1849: (Length of Sequence = 318 Nucleotides)

GTGAGTCCCC CAAGAGGGGC CTCAGTCACG AATGTGATG ACCAGTGGC ACAGGTGGAG TGAGTGCTTG ATGCCCCATGG
TGAAAGCAGG GATGTGGGGC TTGTGCACAG TGANCTGCTG GACCTCGTGG GAGCCGGGGC CAGGCGTGG CGTGAGGTCC
AGAGGTAGG CGAAGGCTTG GCCATGCTGT AAGTAGGGCT GCGTTCTNA TAGATGGATG GCTCAGGTCC GCGGTACGTG
GTAGGTCCAG GGCTCTCTC CACATCTCC TTGTAGANCC AGTCTCTGTC CCTGGAGGCC AGACINTAGC AGGAGCA

SEQ ID NO:1850: (Length of Sequence = 406 Nucleotides)

GGAAGCCACT GATTTTCCCT CCAGTATGAT GATTTACTTT AAAAATGAAC CCAGAGGGAC GGGCATGGTG GCTTATGCCT
CTAATCCCAG CACTTCAGGA GGCTGAGGCA GGCAGATCAC CTGAGGTGAG GAGTTGAGA CCAGCCTGGC CAATATGGTG
AAAGCCTGT NCTACTGAA AATATAAAAA TTAGCCGGT GTGGTGGTGT GCACCTGTAG TCCCAGCTAC TCAGGAGGCT
GAGGCAGGAG ACTCACTNAA CCTCGTGGT GGAGGTGCA ATGAGCCGAG ATTNCACCAC TGACTNCAGC TTTGGCAACA
GAGCAAAGAC TNGTCTTCA AAAAAAATA ANAAGGAAA AAAAACCCNG NAAAAGCTTT TTTATGTGTA AAAACAAGTG
GGTCAC

SEQ ID NO:1851: (Length of Sequence = 328 Nucleotides)

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CTGAGGGGCA TTTTATTATTA TAAATTTAAT ATGGTTGATT AATGAAAAAT GACAATGAAG TACCAAGAAA ATGTTTGTC
ATATAAAAAT TTTAGCAGCA TTTCATAGT TTCAGGCTCC AACATTAGTC GTACTTCCTC CCTCCCGCTA TCAAAAAAG
AAGAGACTCC AATGGGATGG AGTAGAGCCT GGGGGTGTCC AGCTTTGTGT GGGCCTCAGA GAAATACTCC ATCCAGCATC
CAGGATTCTC CCTCCCTCTC ATCCCTGAAG TGCTAGAATG TCAAAGCACA GAAAAAGCCT CCTTTGTGCT GACATTGGAG
ACAAGGAT

SEQ ID NO:1852: (Length of Sequence = 174 Nucleotides)

GGGCAGGACG GCTCTNGGCC CTTCCTGGCT GACTTCAACG GCTTCTCCCA CCTGGAGCTG AGAGGCCTGC ACACCTTTGC
ACGGGACCTG GGGGAGAAGA TGGNGCTGGA GGTTCGTGTT CCTGGCAGCA GGCCCCAGCG GCCINCTGCT CTTACNAACG
GAGCAGTAAG GACG

SEQ ID NO:1853: (Length of Sequence = 252 Nucleotides)

GAGCCATGCA CACACACGGC CGCATAGTCA CACACGCATA TCTACATGTC CCCCCACAT ATACACACAC ACATATACAT
GGACCCATGC ACACACACAG CTGGATATTC ACACACACTT GCACATCCAC TCCATATACA TAGACACGCA CAGACACAGC
TGCATGTTCA CACACGNGGA CGTGCACAG GACACAGACA TGCATGCATA TGCGCACAGG TGTGTACAGC CTCAGTGGTG
GGGGTTGGCT GT

SEQ ID NO:1854: (Length of Sequence = 288 Nucleotides)

GGAAGGAGGG CTAAACAATG GTCTGCAGCT CAGTTACTCC TCATCCTCGC CTGGGCCGGG CCAGCATCCA CTCCCCTTCC
TGTAAGCAT TTGGATTTC TTGGGAAAC AGCCCTGCCC TCTGTCTGA TCCATGTGTT TTGAGATCTC ACAGTAGCAA
GTGACTCATG TTGGTTCAGT GATCCCAGA GGCTGATTCA AGGATGTCCC CAGCTAGACC CAGGATGGTG GACTCCAGAT
TGGGGCACTG GGCAGTTTCA CATCTCAAG GCTTGGCCAT CATCGGG

SEQ ID NO:1855: (Length of Sequence = 293 Nucleotides)

AAAATGCTTG TTGATATTTT AGTTATTAAAT TCATATTAAAC TTGGCTGAA ACTTTTAAAT TCTATTGIGA ATAGTCAAGT
AAAATTAGA TTGTTACATT CTGGTTAGT ATTAGATGTT TTTTAAGATT GTTTTAAACA AGATGTTTTT AAGATGAGTT
TTAAATAGTT CTCTTAACAC AAATAAGCT TAATATGAGT ATTTGAAGGA AATTATCCCA AACCAITCCA GTTCTGGCT
GTGAAAGGCT TTTCCAGGGC TAATAAGTTT TCCATTTCAG CCGTAAGTAG GTG

SEQ ID NO:1856: (Length of Sequence = 308 Nucleotides)

ATCTTAGCAG AATCTTGAAA AGCCAGAGA TCAAAGAGC CCTTCGAGCA CCACGCAAGA AGATCCATCG CAGAGTCTTA
AAGAAGAACC CACTGAAAAA CTGAGAATC ATGTTGAAGC TAAACCCATA TGCAAAGACC ATGCGCCGGA ACACCATTTCT
TCGCCAGGCC AGGAATCACA AGCTCCGGGT GGATAAGGCA GCTNCTGCAG CAGCGGGCAC TTACAAGCCA AATCAGATGA
GAAGCGGCG GTTGCAGGCA AGAAGCCTGT GGTAGGTAAG AAAGGAAAGA AGGCTGCTGT TGGTGTTA

SEQ ID NO:1857: (Length of Sequence = 299 Nucleotides)

GGGAAAGCT AATTGGCAAT AATCCTTGGC GGAAGGTCAG ACTCCTCTCT TACAGATCTA GGAAGGCCT GGTAAATGA
TGCTCTTTG GAAATGCCA AGCTCCTTCA GATCCATAC CCTCTCGGC CCTCAAGCAT AGGCAACGAA CTGTCTCTG
GCTTCACGNT TTCTATTGA ATCAAAGCTC TCATGCATGG CCTGGATTG TAAACACATG CTGGCTGCCA GCAGTGGCAA
GTTAGCCTCC TGACCCACTT CTCTCTGCT TCACTCTGG TGTATGAAGG GGGATGAGG

SEQ ID NO:1858: (Length of Sequence = 295 Nucleotides)

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TAAGACTTCC TGTTAGTAAA AGCTACCTCA TGAAAAGTAT TGATGTTATT TGCCAACATT TAGACTAGCT TTTGTTACCG
TTTCAGTTAT TCAATTTAGT CAGCACATGT TTGAGTGTCT TACTGCAGGT GAATAATCCA TGATTTCTGC CCCAGAGTAG
TTCATAAGAC TGGTAGGATA CATAGATTG TAAATAAATA ATTATAATTC TGGGCAGTAA GTGCTGCTAT AGAAGTCTCT
ATAAAGCAAT GTGCAACAC AAGAAAAGGA GCCGTTAATT CCTTATAGGG AAAGG

SEQ ID NO:1859: (Length of Sequence = 326 Nucleotides)

CTTTATTTAG TGCTGGGGCT TTGGAAGCAA ATGTACCTGA GTTTGAATCT CAGGGATAAC CTTTGTACTG TGGCCCTGGG
TAAGTTACTC ACTGTCTCTG AACTTCAAG TTCTCATAA ATAACCTAAG ATGGACAATC ATAACCTCTCT CTGTGGATTGA
GGTAGGAGAA TATGTGTGGAG GCAGGGAACC GAAGGCCATT TCACTCCAAC TTCTTAGAAC TAAATTAAAA GGAAACCCCT
AATTTTCCAT GCCTAAGTAA CAAAAGGACC AAAGGTTACT CCGTTTGCAA ACTCCACCT TTTCTGCATG GCAGATGGGA
AGTTGG

SEQ ID NO:1860: (Length of Sequence = 294 Nucleotides)

CCACCCCTAA AAGCACCTGG CCCCCTACA GCAAACCAGG TCTGTCCATG CGGCTGCTGG AATCAAAAAA AGGCCTCTCC
TTCTTTGCGT TTGAGCACAG TGAGGAGTAC CAGCAGGCTC AGCACAAGTT CCTGGTGGCC GTGGAGTCTA TGGAGCCGAA
CAACATCGTG GTTCTGTCTC AGACGAGCCC TTACCAGTT GACTCACTCC TGCAGCTCAG CGATGCCTGC CGCTTTCAAG
AGGATCAGGA GATGCTCGA GACCTCGTAG AGAGAGCGCT GTACAGCATG GAAT

SEQ ID NO:1861: (Length of Sequence = 183 Nucleotides)

TGAAGACTCC TAATCTAGTG CTOGAGAAA AGCAGGCAAC AGAGGCCTGA TGTCTGACAT TGAATCTTTG GAAGATTAAA
CTTCTCACA GATTTTATA ATNACTTTGG AAATNATGAC TGATGCCAG GCTGTTCCTT GGGTGGACAG TTTGTCTTTT
TTTTTTTTTT TTTTTTTTTT TTT

SEQ ID NO:1862: (Length of Sequence = 296 Nucleotides)

TTGGCTTCT TAAAGTCTT CCCATCCCTC CTAAGGTCTA AGATGATGCA TTAAACACAG AGGATGCCCC ACAGTGGCTG
ATGGAATTAC CAAGTAAAT CTAAGAGGTA GAAAATGTG GTAGTTTTTA AATTTTATTT TATTAGTATG CAGGTGGGAT
TCAGAGACGT AAGATCTTAG CCTTTATTTT CAACATCTCC CATGCATGTC AACAAAGATT ATCAAACACA GGAAGTGAAT
AAAATACTAT GTAGACACTG ACCCTCTTTA TATAAAATGT GATTGATCAG GTCTGG

SEQ ID NO:1863: (Length of Sequence = 259 Nucleotides)

CAAAACAAA AGGGGCTCAA ACCAACAGGA AGTCAGCCCC ACCGCAAGCC GGAATACAAC TAACTCGTGC TCTCCACGCT
CAGGCGTGA AGCCAAGGCT GTGCCAGGCC TGGCCAGGCC AAGCAGGATG ACAGCAAACG CATTTCTGAAC GTNTAGCAAT
CAGGTCCCTT GTAATGTGCT TGGAGAGTNT GGACAAGGCC CGAGATGACG AGCTATGAGC TGTGGAAGGG AATGGGGGAA
GCAGAAGGCC ACAAACAGA

SEQ ID NO:1864: (Length of Sequence = 290 Nucleotides)

ATCCTTACCA ACAATGCTC CCACTGCCT CAAGCTCTC CTAATGAGA ACATAGTTCT TTCTGAGCAA GGTCTGTGG
ACCATGAAGA ATGTACCAA GCTCCCTCA GATCAGCGG GAGCTCAGCC AAAGCACAAG TGCACTGCC AGCTCCTCCC
ACTCTGACC TGCTGCCTCA NACTCCCTAC GCTGAGCCCA GGCCCCACC CTCTGAAGGT GTTTCCCATG TGATTTGAC
ACACACACC CACAAGAACC AGATGATCTA TGNCATACAG CATTTAGCTA

SEQ ID NO:1865: (Length of Sequence = 236 Nucleotides)

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CATTTCGTGTT ACATTGAGAC TTCAGTCACC AACATCTGGT GGCAGAGATA CAGGTGTATG AAACATTTCT ATTTACCCAA
 ATATGCCAGT TCCCAAATAG GATGACTGCA TTTAGTGTTA AACTGGCTTT TCTCATTAGA TACTCTAATT GAGGAATATT
 TAGCTTCITG AATAGAAACC ATCCAAATGA TGTTTTTTTT TTGATATGTC TGTAACATA AAAATCAGCA AATAAG

SEQ ID NO:1866: (Length of Sequence = 424 Nucleotides)

TACGGGAAGG CGGTGTTTGG AGGCTGGAGC CGTGGCAACG TCATTGAGAA AATGCTCACA GACCGGCGGT CTACAGACCT
 TAATGAGAGC CGCCGTGCAG ACGTGCCTGC CTTCCCAAGC TCTGGCTTCA CTGACTTGGC AGAGATTGTN TCCCGGATTG
 AGCCCCCAC GAGCTATGTC TCINATGCT GTGCTGACGG AGAGGAGTCA GATTGTCTGA CAGAGTATGA GGAGGACGCC
 GGACCCGACT GCTCGAGGGA TGAAGGGGGG TNCCTCGAGG GCGCAACCCA GCACTGCCTC CGAGATGGAG GAGGAGAAGT
 CGATTCTCCG GCAACGACGC TGTCTGCCCC AGGAGCCGCC CGGCTCAGCC ACAGATGCCT NAGGACCTCG ACAAGGGTCA
 CCCCTCCTCC ACCCTGGACT GGCT

SEQ ID NO:1867: (Length of Sequence = 256 Nucleotides)

AAACAATTGA AATCCACAAG AAATTACTAA CAGCACGTGT TTACGTTTTA TCCTGAATCA TACATTTTAA CAATTCACAG
 CTACAGGAAA TCTAGAACAA AATCAAATAT TCATCACGTT GGGTIGAAAA GTTGAAGAT TTTGCATCTT ATTGAAAAGA
 ATTTTTCAAA AATGTTTCTG TACAAATGAA TGAATTGCA CCAGGCTGCC CATGGACACC AGGTGTGGCC GCTTCCCAAC
 GGTCAACCCAC CAGCTT

SEQ ID NO:1868: (Length of Sequence = 297 Nucleotides)

CAAGGTTTTT TTTTATTGT AGCTATAGCT ACAACTTGGC AGCATGGGGG AGGGTGGGAA TGTCTGGAG GGTCTCCCAG
 CCCTCCGCAA GCAGAGTACA AAGGCTGCTC GGGGGGCCGG CCGAGGGGCG GGTGTCAGCA GTGNAAGCAG CAGCACTAAA
 CCTGGTGCCC CCCTCAGGTG GGGTGTCTGG AAGACGGTGG GCAATCCCTG CAGGATGGGC GAGGACCAGA CCCAGGGGCG
 GGGATCCTGC ATCCCTAGAC CATGTTGGGT CCTGGGTGAN GGCACCTINGG NATGCTA

SEQ ID NO:1869: (Length of Sequence = 470 Nucleotides)

CAGACATCTG GAGCATGGGA CTGTCTCTGG TAGAGATGGC GGTGGGAGG TATCCCATCC CTCCTCCAGA TGCCAAGGAG
 CTGGAGCTGA TGTTTGGGTG CCAGGTGGAA GGAGATGCGG CTGAGACCCC ACCCAGGCCA AGGACCCCCG GGAGGCCCCCT
 TAGCTCATAC GGAATGGACA GCCGACCTCC CATGGCAATT TTTGAGTTGT TGGATTACAT AGTCAACGAG CCTCCTCCAA
 ACTGCCCACT GGAGINTTCA NTCTGGAATT TCAAGATTTT NTGAATAAAT GCTTAATAAA AAACCCCGCG AGAGAGAGCA
 GNTTTTNAAG CAACTCATGG TTCATGCTTT TTATCAAGGG GATCTNGATG CTGAGGAAGT NNGATTTTTT CAAGGTTGNG
 TCTGCTNCAC CATNGGGCTT TAACCAGNCC CGGNACAACC AACCCATGNG TGTGNGGTT TAAGNGTTTT

SEQ ID NO:1870: (Length of Sequence = 344 Nucleotides)

AGAGATTAGA TTTGTTAAAC ATCTAGGTTA AAATGGTTAA AAGGATTTTC ATACAATTTT AGGCACTATA CAGGTGTGTT
 ACAACAGCAT TGGTACTTGG ATATGGGGAA AGATAAATCC GACATTTTAA TATCTTGATC AATTTGTGAC ATTCAAATA
 ATTCCATTTA AGAAACATTA ATCAAACTT AAAGAGACAT ACCACTAAGT ATCCACACA GTATACTGAA AATAAATATA
 GNAATACAA CAGAAGTCTA CAGNACCA CAGTAGACAG ACTGGTGAAG NCCCAGCTTT TCATGGGCAG TNAAGGGCTC
 TGGGCTAGAT TTGGGTGTCA ACTG

SEQ ID NO:1871: (Length of Sequence = 278 Nucleotides)

GGATTTATG TCATTCCTCC AAGGTCAGCA GGGGAAGGGG ACACCAGCCA CACTTCACCA CAGGCATAGG TGGCACTGAG
 CCACCTGGCA CTATCTCCAC GTGCTCCACA CGGAGGGGTG CCTTCTCACT GGCAGCAGCT GCACITCTCT GCTTCTGCCT

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CAGCTGCCTC TCCGCCCTTG CACACACAGT CCTTGGCACA CTCTCACAC TNOGCAGGCA GCAGGAGCAG CAGCTCTTCT
TGCAGGAGGT GCATTGTCAT CCCTCGCACT TGCAGGAG

SEQ ID NO:1872: (Length of Sequence = 271 Nucleotides)

CTTGCCATCT TCACAGCCAG AAGCTTCCTT GCTTCATGCG CAGACCTCG TGACTCCCTC TCCCTTATAA GGGCCCCCAT
GATTACTCAG GGGCCACCTC AACCATCCAC GGTATCTCC CCACCAGAA ATCCTGAACT GAAGCACAGG CGCCGGGTCC
CTTTTGCCAC GCAAGGTAAC ACTTTCACAC GTCTGGGGT TCCAAACCTG CACATCTCTG GGGGCTGTTA TTNCACCCAC
CGTCATCAGT GAGGCGCCTT NAGGAGGGGC T

SEQ ID NO:1873: (Length of Sequence = 332 Nucleotides)

CAGGGTATAG TGCAGTGGCG CAATCTCGGC CCACCACAGT CTCGACCTCA TGGGCTCAAG TGATCCTCCC ACCTCAGCCT
CCCAAGTAGC TGGGACTACA GGCATCCTCC ACCATGCCCA GCCAATTTTT TGCAATTTTC ATAGAGAAGG GGCTTCACCA
TGCTGCCAG ACTGCTCTG AACTCCTGGG CTCAGCCAT GGAATTGCCT TGGCCTCCCA AAGTGTTAGG ATCAGAGCCG
CGAGCCCTG GACCCGSCCT ATAGTTTTTG TTTGCTTTG TTTTGTITT TTGAGATGGA GTCTCACCTC GTCANCCAGA
TGGGAGTGCA GC

SEQ ID NO:1874: (Length of Sequence = 317 Nucleotides)

CTCTCCACCT CAACCTCCAG CCCACCTCCA GGTGCGGAA GGGGCTGAGT CTCCCTCTCC CATACATACC TCACCCGGCC
CCCAGCCAC AGAGAGGCTG AGGGAGGGGC TCTGGGTCTT CCTCCATCCC TGTACCTGCT TCTTCCCTCT TCATTTCCAC
CTTCTAGATC TTTCCCCCA CCCAGCCAC CTCAGGCTG GGAAGGTGA GGAATTCITT CTTCCACAC CCTACCCAC
CTCACCTGCA GCCTGTGCC TGGGCCAGGA GAGGCATGGG TGAACAACCA GACCCACAAC CCCGACCTC GCAGGCT

SEQ ID NO:1875: (Length of Sequence = 185 Nucleotides)

GTGTTCCACC CACCTCGGC TCCCAAAGTG CTGGGATTC TGGGTGAGC ACGCTGCGC TGGACAGTCT GCCCCTAGAT
GAGTTGCCA GCACGTACA GCTACTGCCT GCCCGACCC CAGCCCTGA TTCTACCGCC GCTCGGCAGG GGGACGGCA
GGGAGAGGTC CAGCCGCGC GCAAG

SEQ ID NO:1876: (Length of Sequence = 214 Nucleotides)

CCTGGGGACA AAATAGTCAG CAAATCTCA AGGGGAGAAA ATAAAGTACT TCCCTCTGT TAAAAAAG TCAAGAGACA
AATCTTCTT CCCCATTCT CACTAATAGT TATTGAAGG GAAAAA AACCACAA CTTTTTAAAC TAAAGATAAA
AACAAATGAA AATGAATAAG ATCCAAAGAA TGTCTTTTGT TACTCTGCCT TATG

SEQ ID NO:1877: (Length of Sequence = 340 Nucleotides)

TTTGAAGAAG AAGAAGTTGA ATTTATCAGT GTGCCTGTCC CAGAGTTTC AGATAGTGAT CCTGCCAACA TTGTTATGA
CTTTAACAAG AAACCTACAG CCTATTAGA TCTTAACCTG GNTAAGTCT ATGTGATCCC TCTGAACACT TCCATTGTTA
TGCCACCCAG AAACCTACTG GAGTTACTTA TTAACATCAA GGCTGGAACC TATTGCTCT AGTCTTATCT GATTCATGAG
CACATGGTTA TTAGTGATCG CATTGAAAAC ATTGATCACC TGGGTTTCTT TATTTATCGA CTGTGTCATG ACAAGGAAAC
TTACAAACTG CAACGGGAGG

SEQ ID NO:1878: (Length of Sequence = 326 Nucleotides)

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GAAAAACAAG GAAAATAGGC AACAACTGC AATGGACACT TTTCTCTACA GAACCTTTTC AACCTGAAT TGAATTGTTT
CCTATTTCATT TNCTAATAAA AAGTTACTTT GCAAGATATA AGGAAATACT GTCCCAAAGA TTTTCACTAG TCATTCAATC
CATTAAATAGG ATTTGAAAAG GCATCATTAC ACAGGGTTGA AAATACTCTG GAATGAGACT GCTTTACAGT CAGAATGCCT
GAGTTTGTAG GCACTGTTAC TTCTAAACAT CTCTAAGTTT CTATTINCTC ATCTAAAGGA GTAATATTAC TTTCCITAAA
AGGTTG

SEQ ID NO:1879: (Length of Sequence = 222 Nucleotides)

GAAAGGGAGA GGTTCGACGG AGCCAAGATC GTGCCACTGC ACTCCCACTT GGTGACAGG GCAAGACTCC ATCTTAAAAA
AGAAAACCCA GGAGTCTTTG GTTAATGTAG TGCAGGACTC TGAGCTCCCG GGAGGACCCT TCCTCCAG ATGAAGTGTG
ATGGACCAGC CCAAAGGAGG GGAGAGAGCA CTINGGCCAT AGTGGTGGTG GATCTTTCTA AC

SEQ ID NO:1880: (Length of Sequence = 244 Nucleotides)

GACATGAATG GTATCCTCTT GGGGTATGAG ATCCGCTACT GGAAAGCTGG GGACAAAGAA GCAGCTGCGG ACGAGTGGAG
GACAGCAGGG CTGGACACCA GTGCCCAGT CAGCGGCCCT CATCCCAACA CCAAGTACCA TGTGACCGTG AGGGCCTACA
ACCGGCTGG CACTNGGCTT GCCAGCCCTT CTGCCAAGN CAGGACCATG TAAGCCCCCT CCGCGCGAC CTCCTGGGCA
ACAT

SEQ ID NO:1881: (Length of Sequence = 156 Nucleotides)

GTACAGGGGA GAGTTGAGCT GTGACAAAGT CAAACACAGG CCTGGCCAC CCACAGGAGC TCTGCAGCTG GGTGGTCTT
GAAAGTTGTC TCAGTGAAGG CAAGGTGCTG AGCTTATTAC CCCAGCAGTC ATTGTATTTA GGCTCCGTTT GTTACC

SEQ ID NO:1882: (Length of Sequence = 210 Nucleotides)

TTTTTTTTGA AACGAAGTCT CAGTCTGTCA CCCAGGCTGG AGTGCACTGG CAGCATCCCG GCTCACTGCA ACCTCTGTNT
CCCAGGCTCA AGCTAGTCTC CTGCTCAGC TGCCCGAGCA GACGGGACTA CAGGCACCCC CACCACGCCC GGCCAATCTC
CAAATGGTTC TTTTTTTCCG GAGTAGTAAG TTACAATAAG GGAGATTATT

SEQ ID NO:1883: (Length of Sequence = 214 Nucleotides)

GTGATGAATA CATCCAGTIT TOCAACCACA TTCCACCAGG TGGGTGTTTG GCTGTGGGAC GCATTATGTA ATCTTCGTG
CCAGGAAATT TACCTTCCTA ATTACATTTT GCAATGTTT ATTTGAAGCC GCCTTCTTGG AGCTCAGAGT AACTAGGAGG
TGGCTGCTGG AAGCCCCAGG GCACCGTGGG AGGGACAGGG GAACGTCCCA GACC

SEQ ID NO:1884: (Length of Sequence = 211 Nucleotides)

ATCTTTCTGCT CTATGTGCCA TCACCTGGAC ACTCTAGGTA ATACCCCTG TTGGGCAGGG GTGAGCTCCC AAGGCCTCAG
GCAACCCAGC TCCCATGACT TTGCTGGGCT CAGCCACAT AACTGTTCTC ACAGGATAGA GTTGTACACT GGTGCTTACA
GCTTTCTG GCCAGTGTG CATGCTGCCA GTGGCTGAG CAGCAGCCCC A

SEQ ID NO:1885: (Length of Sequence = 212 Nucleotides)

ATTAGCTGAA TTCGCGTGTG GCGGTTTGGG TAGGCAAAGG AGACATCTTG GAAGTGGACA AGGCCCTCCA AGTGTAAAGG
AGTCAACAGA CCACCTGGTG GGCAGGAGG GTGCGGTCC AGGTACTCAA ATATTTTCTC TGAGGAGCCC ACAGCCTTCT
GTACTCTGGG GTAGATGGAG AGCAGTACCT CCACAGCCTG GTTGAAGTGC AT

SEQ ID NO:1886: (Length of Sequence = 208 Nucleotides)

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CATCCGCATA GTATTTACAT CATGGGTATA GGCAAGINCT ACAAATCAGG NCTTINCCIT GGGGATGGAT GTTTGGAGCT
AGTTTACCAG CACACCAGTG GGTAAAAGTG AACAAATACT TTTTGTATCC CACAGAATCT TAAAAAATAC TTTACTTCGA
AAATGTCTCT ACTAAGTAAT CATATATATA TATATATNTG TATATATA

SEQ ID NO:1887: (Length of Sequence = 332 Nucleotides)

CTCGTTCCT GCGGCCAAC TCCCATTCOA ACTTCCTTTT TACACTGGAT GTTCTATCA CATCTGAGG ACCACTAACC
CACCAGCAAG TCTCCCTCTG ACACACATTC ACGTAGGTCC ATACCCCTCA GAGTCCCTAAA GGGTTAATGA GAAGCCACCT
CAGCTTTGGT GAATGGAGCC CCAGCCCAAA ATCCCTCTCC CTTCGAAATA TGGGACAAGT AGGGAGAGTC TGATGGAGGC
ACCAGACAA CTACAACAAC CTCTTACCCC TCAGCTATAG ACACCTAGAT CAGGACAGAG GGATGCATAT GCGCTCTCCA
CCTTAACACC AA

SEQ ID NO:1888: (Length of Sequence = 224 Nucleotides)

AAGAGCTGAT TGAGGCTGCC AAGAGGAACG ACTTCTGTAA GCTCCAGGAG CTGCACCGAG CTGGGGGCGA CCTCATGCAC
CGAGACGAGC AGAGTCGCAC GCTCCTGCAC CACGCAGTCA GCACTGGCAG CAAGGATGTG GTCCGCTACC TGCTGGACCA
CGCCCCCCA GAGATCCTTG ATGCGGTGGA GGAAAACGGG GAGACCTGTT TNCACCAAGC AGCG

SEQ ID NO:1889: (Length of Sequence = 261 Nucleotides)

CACTTTACTG AGTCACACCC AGCTGTAAAC ATGTACCGT GAGANTCCCG CCCCCACCC CCAGGCGCA CAGTCCGCGA
TGAAATGACA GGGGAGCGGG GAGGGTCCG GGAGCGGGT CCAAGCAAGG CAGGGCAGGC AAGTGCAGCA GGCGCTGAGT
TTCCGGGAGG AAGCCCGGAG GAGGTGGGT GGGGCAGGAG CGNGGGCTGG GGACCCGCC GAAGACCAGG GGGCCAGGA
AGCCTCTTTT CCGAAGGCT T

SEQ ID NO:1890: (Length of Sequence = 312 Nucleotides)

CTGCGAGACT ACGAGACGGT GGTCAAGGTG AAGCCCCATG ACAAGGATGC CAAAATGAAA TACCAGGAGT GCAACAAGAT
CGTGAGCAG AAGGCTTTG AGCGGGCCAT CGCGGGGAC GAGCACAAGC GCTCCGTGGT GGAATCCTG GACATCGAGA
GCATGACCAT TGAGGATGAG TACAGCGAC CCAAGCTTGA AGACGGCAAA GTGACAATCA GTTTCATGAA GGAGCTCATG
CAGTGGTACA AGGNCAGAA GAACTGCAC CGGAAATGTG CCTACCAGAC AGAGAAGATT ACAGTATGTG GG

SEQ ID NO:1891: (Length of Sequence = 298 Nucleotides)

CCTAAAGGCC AGGCAAGGCT GATTCTCCAC TTCCACATGA GACAGAGCTG ATTCTGCAGG GAAACGGCTG GGGAGGCTCC
ACCTCTTTCC TCCCCAAC CATTTACTGG GAAGTTGTGT ATACTTGGCA GTNTGGGAGG AAGGTACTTG GAAGACCTG
CCAGCCATCT CCCACCCAGA CTCTTCTCA CCAGCACAGT CTTCAGGCT TGGTGGGAAA GGTGTGTGGG AGTGGAGAAA
GACAAAGGCC CCTTCTTNA GAGAGGAGCT GCAGAGAGGG GCAAAGGGGT TCCTAGCC

SEQ ID NO:1892: (Length of Sequence = 333 Nucleotides)

CTCAAAGGTC ATCCAGTCCG TCGCTAATTA TGCAAAGGGT GACCTGGACA TATCTTACAT CACATCCAGA ATTGCAGTGA
TGTCATCCC AGCAGAAGGT GTGGAGTCAG CGTCAAAAA CAACATCGAA GATTGCGGTT GTTCTGGAC TCCAAGCACC
CAGGGCACTA TGCCGTCTAC AACCTGTCCC CGAGGACCTA CGGCCCTCC AGGTTCACA ACGGGTCTC CGAGTGTGGC
TGGGCAGCAC GCGGGCCCC ACACCTGCAC ACCCTGTACA ACATCTGCAG GAACATGCAC GNTGTGGCTG GGCAGGACCA
CAAGAACGTC TTC

SEQ ID NO:1893: (Length of Sequence = 487 Nucleotides)

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CCAGATAGAG TTTCTGTTTT TNAGTTTTAC ACGTGCCACA TCAGGGAAAG TTAGGTTATG ATTAAAGCAA GAGATGATAG
 ATGAACAAAC AAAGAAACAA CAACAAAAG CCCATGCAAG AGGCAGGAAA AGAGGCTGAC TGGTTAAAGA ACAGGCCAGA
 TTGGACAATA CTGATCAAGA GGGGTTTACA TTTGAAAGAA CAGTGCTTTA TTCCTCTACT GACTAGAACT AAAGGGATTT
 TGGCCGGGTA CGGTGGCTCA CACCTGTAAT CCCAACACTC TGGGAAGCCA AGGTGGGCGG GTCACGAGGT CAGGAGTTGG
 AGACCAGCCT NACCAACATG GGTGAAACCC CATCTCTACC CAAAATACAA AAACCTTTNC CGAGCGTGGG CCCGGCGTTG
 GTTGGCTCAT ACATTTNATN CCCCCNCTTT NGGGGGCCCA NCCGGGCGGT TCACCTTAGG GTCAAAGGCT NCGGGNCCT
 TCTTGGC

SEQ ID NO:1894: (Length of Sequence = 283 Nucleotides)

GGTGGTGAAG TGGGCTCTGG AGAAGCTGGA GCTGACCAAG TACGAGACA AGCCGGCTGG CACCTACAGC GGCGGCAACA
 AGCGGAAGCT CTCACGGCC ATCGCCCTCA TTGGGTACCC AGCCTTCATC TTCCTGGACG AGCCCAACCAC AGGCATGGAC
 CCCAAGGCCC GGCCTTCCT CTGGAACCTC ATCCTCGACC TCATCAAGAC AGGGCGTTCA GTGGTGCTGA CATCACACAG
 CATGGAGGAG TGGAGGGCGC TGTGCACGCG GCTGGCCATC ATG

SEQ ID NO:1895: (Length of Sequence = 234 Nucleotides)

ATGTCCATTA GCCTCATTG TCATCTGAGG GAGCTGGTGA GAACAGCCTT GCGGTGAAGG CATCCCTGGT AGAAGTCGGG
 GGAGATAGAT AGTCACAGTT CCCAGTTGG TGGAAATNGG ATNGGAGTAG GGAGAGGCTN GAACAGACCC TTCCCATTC
 ACCTGNGAA TTTTCTCCTC CCACTGCCCT AAACACTTTA TTTCCATCAC AGGGGAGAAA TNCCTCTGAG AAGG

SEQ ID NO:1896: (Length of Sequence = 285 Nucleotides)

CTTTAAAGTG TAATAATATG ATTITTTAAA AGAAATTTAT TACTGTGTC AAAGGTCTTT TTAAACCACT TTAGATTCA
 AGAAAAATA AATGGAATC ATCGAAATC CATTTCACAT TAATGGTCTA AAAATAAACC AAAGGACATT ATGTGTGCAT
 GTGTGTATAA GTGCACACAG AAATATATAT NCATATGNG ACTATATACA TGTGTGTATA TATGTGTATA TATACATNCA
 CTGTATATAA TGTATATACA CATATACCTA TAATGTGTGT ATGIG

SEQ ID NO:1897: (Length of Sequence = 288 Nucleotides)

GCAGGTTTAT GTTTTATTT ATGTATTINA ACTGACTTAT TTGTGTATCC CACTAGAACA ATACATTCAC AATATACTTG
 CAGAAGTGTG CTTGGSGSAT CATGGGAGCA GAGAACTTGT CCACTGAATA GTTGTGAAG AAAGGAGTAA AAWCTCCCC
 AAACCTTAAA GGCATCCTTT TCGTAGTGTG TGTCCAYAG GTATGGCTGC TGAGCACCAG GGGCTGCTCA CCATGNTCCC
 AAGAAGCAGA GTCANGGAGG CAGACAGCAG GGTATTATTA GGTGCACA

SEQ ID NO:1898: (Length of Sequence = 398 Nucleotides)

CAGAAGTAAA AGATTTTTAT TGTCTATAG ACACTTCTGA AAAGAGATCT AATTGAGAAA ATATACAAAG CATTAAAGAG
 TTTCATCCCC AGAGACTGAC TGAAGGCGTT ACAGCCCTCC TCTCCAAGGC TCAGGGCTGA GAACGGTTAG CATATCGAAT
 GATCAGTAAA AACATGCAAA AGTGAGAAGG AAAGGAAAA AGGTGCATTC CCTAAGCTG AGGGGGATGG AATTTAGAA
 CAGAGGAGGC AGGGTGGACA AGTACCAGGT GGCTCTCCCT TTCCCTCTGT GTTATCTTTC AAAACAGTTC CAAGCTTTGA
 GAAAGCAATG AGCTCCACCT ACTCAGCAGA CCCACGGTTC GTCCCCCTGG ACGTGACTTA GCAGTGACCT TGCTGCC

SEQ ID NO:1899: (Length of Sequence = 227 Nucleotides)

CATGGGGACC CGGGTTTATT TTATTAGGAA GGAAACAACC AAGCACCCCA TGTTCCTGCC CGGACTCCC GGGGGGAACA
 TGCCAAAMAG CCGGGGATCG AACCAGCCC ACCTGTGCTG GRGGKCCCTT CTTTCTCAGG CCACAGAAAT AAACCCGTGT

ACTTYYTATT GTTAGCACAA CATTACCAGA AAACGKTAAC GGCAGCCAAG CAGGACAGAC AGTTAAG

SEQ ID NO:1900: (Length of Sequence = 405 Nucleotides)

GGGATGCACT GGGTTTCACA TCAAGTTCCT GAGAGGWTCC CGAACGACTT CTCTGCCCA GGGGAGTCCG AGCCACAGTT
TTCTGATCAA CTGATGATTC TRACCCGCTT CTTTCTCTCT GGGGGGTAAG ACACITGTTG TTGAGCTCTG GGGATGATGG
AGAACGACTC CTCGGCCTAG GAGTCIGAGG CAAAGCTTTC GGTTCTGGGG AAGAATCACA TTCGCTTCTC CCTCTAGATG
GCGTTCTAGG TATATCTTTC ATTCCAGGAG AGGACCCAGA CAGGCTGTGC CTCGAGGGAG TCCAGACCC ATCTCTAAGT
CCTGGAGAAG ACCCAGACCT GCTTCTCCTT GATGGAGTTC TGGTAAACCA TCTTTCATTT CAGGAGAAGA TGCAGACTAC
TTCTT

SEQ ID NO:1901: (Length of Sequence = 244 Nucleotides)

ATRATTCATA TGCTAGTTTA TTTATCTTAT TATTGAGAGA TAATTTTCATG ATGACAGTTA TCAATAATCA ATTACAATAT
CAAGAAATTC AAAGAACAAA ATCTTGCAGA GACTATGCTT TTGTATTTGG ATTTAAAAAG TATGTGATCT CATTTTCACA
TACCAAGCTG AGAGGCCATT TAGACTATCT CTTTGCTAAT TTTTGCTTAC TGCTGTAGGG AAGAAGATT CCAATGAMCT
TTAG

SEQ ID NO:1902: (Length of Sequence = 329 Nucleotides)

TAAAAATAAA AAAATAAATA AAATTTTAAA AATAATAAAA ATTCACTATA TACACATATA AAGAAATAAA AAGAAGTCTC
AGTTGCAGCT ATTTGTCAAA ATTAATATCC ATTTCTWTW ATATACGGTG AATATGCGC AATTATAGAT CTGGATTTTA
AACCACITAA TGAAGCGCA ACACCAGGTG TTTTAAGGTG TTGGCATTCT TCGCTGATTT GGCTGTCCC AATGTTTACA
TTATTTAATC TTGCAAAAAT GGTTCIGATG CACTTGGGAT GTGAAATGCT GTCCCGTTTT ATTTTTTAA TGTGTTATC
CTTGGGTGT

SEQ ID NO:1903: (Length of Sequence = 421 Nucleotides)

ATTTTATATT CCACAGTCAG GTGGGTCTGC GATASTCAIT TAATGTTAAA CGCCATCAGG GGCTCTCCT CCCGTTTCTG
CCAGGGGCTT TTCTTGCTT CTCCTTGGTC ATCATCATCA TCGTCTTCTT CTCTCTGTG GGCAGATCTT CTCTGGTGGG
GGCTGGCTGC TGGCTCCGAG GGGGCATCCG CAGTCCGTCT GGTCGTCTCC TCCTGCAGGC TGGGCAGCTG GCCACCACTT
CTCCGACTCG ACCCTCCAA CAAGCATCGC AGGGCACTGT CCTCGGGGGT ACAGACCGTG GTCCACATT CGTACCCT
CTGTCCACG NCATCCAGGG TACACGAGCT GCGGTAGGC CGTCTGTCT TGGGGCTCGA GGCTCTTCT GCTGGTGTCT
TTGGACGGG GGTAAATTC T

SEQ ID NO:1904: (Length of Sequence = 423 Nucleotides)

GTCTGTCCGC CTGTCTGAA GTGACGGTGC AGCCAGGCTG CTCCTGCCC AGCAACCCG AAGCCATTGT GCTGGACGTC
GACTACAAGT NTGGGACCCC GATGCAGAGT GCTGCAAAAG CCCCATATCT GGCCAAGTTC AAGGTGAAGC GATGTGGAGT
TAGTGAACTT GAAAAAGAAG GTCTGCGGTG CCGCTCAGAC TCTGAGGATG AGTGCAGCAC GCAGGAGGCC GACGGCAGAA
GATCTCCTGG CAGGCAGCCA TCTTCAAAT GGGAGACGAC TTCGGGCAGG ACATGCTGGC CCTGCAGATC ATCGACCTCT
TTCAAGAACA TCTTCCAGCT TGTGCGCCTG GACCTCTTG TTTTCCCTA CCGGTGGTG GCCACTGCCC CTGGGTTCGG
GGTGATCGAG TGCATCCCCG ACT

SEQ ID NO:1905: (Length of Sequence = 370 Nucleotides)

CAGAACCAGA ACATTTTAC TCTTTGGGCT CTGGGAAGGG CCAGGCAGAG TGCAAGGTGT CCACAGGAGG GGTAAGCAGA
GAGGAGCTAC AGGGGGCTGC AGTCCTAGTA CCCTGTTGGG GAGGACTGAG GGATGGTGAG TTTGGTCTCC GGAGGGGGCT

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CCAGTCCTGG TGCCCACTTC TNACANCTGC CCTCCTGAG TTCACACTGG AGTCCTTGCA GTCTGAAAC CACAAGGCCT
NCCTGAACCC TGGGTCAGGA GAGAAANACT TGGGGAGGGG AAAGGACGGC GTGGGCTACC CATKACGGCT CTGAGTTCTT
CCTGGGGCTT GTGTCTTTTC CTTGGCAGAA GAGGGCACAG CCAAAGGCAA

SEQ ID NO:1906: (Length of Sequence = 415 Nucleotides)

GTCACACCTT CATTCACTGA GGAAGAAATG CTTTCACTCT GGAATTACAC AGCATCCCAA TCTGACGTTG TACCCGTGTG
ACACTGTTTG TGAGCCCCAA GTTCAACGA GCTCTTGCAA GTAAACGGAC ATTCTGCACA TTTGTAGACA GCTGTCTTTC
CAGATAAGTG GATGTTTTCT ATGTGACGAG AGATGCTACG TCGATGCATG GTGAGGAAAG GACAAAAGGG GCACTGGAAC
CTATTCAATG ATCTNCTAAA TGGAAATCCC TTGGTCTCCA ATAATTTGTT GCCATCTGAG CCCATCAGCT GCTCTGCAGA
CAGGCCTGAT GTCTGGTGAT CCACAGCACT TAAACCATTG TCACTTGTCT AITTCATTTA ACTCTTCATC AGAACTAGAG
TCATTAGCAT GCTGT

SEQ ID NO:1907: (Length of Sequence = 214 Nucleotides)

TGAAATCCTG TACGTGTCAA CTTTGAAATG TATGTGTGTT GGTGGGTGG TGGTGATGTG ATACGGTTTG GATGTCTGTG
CCCTCCAAAT CTCATGTGA ACTATAATCC CCAATGTTCC AGTGAACGAG GTGTTTGGTT CCATGGCGGG GTACCCTAGG
GATTCATCTG TTTTCTCAC TTCCCTTTC ATCTGAGATC CTGCTGGAAA CCAC

SEQ ID NO:1908: (Length of Sequence = 410 Nucleotides)

CAGGAGAGCT GGGCACATGT CCAAGCCTG TNAGTGGCCC TCCCTGGTGC ACTGTCCCGG AAACCCCTGC TTGGGAAGGG
AAGCTGTGGG GTGGGCTAGG ACTGACCCIT GTGGTGTITT TTTGGGTGGT GGCTGGAAAC AGCCCTCTCC CACGTGGCAG
AGGCTCAGCC TGGCTCCCTT CCTGGAGCG GCAGGGCGTG ACGGCCACAG GTCTGCCCG CTGCACGTTG TGCCAAGGTG
GTGGTGGCGG GCGGGTAGGG GTGTGGGGGC CGTCTTCCTC CTGINTCTTT CCTTTCACCC TAGCCTGACT GGAAGCAGAA
AATGACCAA TCAGTATTTT TTTTAATGAA ATATTATGTC TGGAGGCGTN CCAGGCAAAG CCTGGCTGTA GTAGCGAGTG
ATCTCGGGG

SEQ ID NO:1909: (Length of Sequence = 339 Nucleotides)

AAAATTAAAT CCAATTTTA TTAAGGATTT CAGGTTACAT ACTTCAAATT TCTAGAATGG AATGGAATCA TTTTGGAACT
GGAAAAATGG CATAAACAAT GACGTCCCTT AAAACTTCAA TTTTATAAAG AAAATTCTTC TGCAAACCAC ATCCCTTTTA
TGTAACAAGA CTAGGTATTA TCTACACCTT CACTTTGGCA ATAGCTATTT CCTAAAGAAT GAAAAAGATG ATTTTNTTAC
TTCAGTTTAT TAAAAATGGG ATTCTATCTT TGAAGTTCAG AAAAAGCTGC ATTTGATGA ACTATGGGTT AAAAAAAAAA
GCACATAGTG TCTAATCAA

SEQ ID NO:1910: (Length of Sequence = 439 Nucleotides)

GGCCAGGGA GCACCAATCA CAGCAGGGC TCTGGCCAG GTGTGGCAG CCCAGGCTC CATTGCTAA TGATTAATAC
ACTGTTTGGG CTGGCCAGTT TTTTCATGAT GCAGCTTGAC GATTGAGCAC AGTCAGGCCT TTGTATTAAA AATGAAAAAT
GAAAAACAA ATTCAAACC TATTCAAATG GGTCTAGTT CAATTTGTTT AGTATAAATT GTCATAGCTG GTTTACTGAA
AACAAACACA TTAAATTTG GTTTACCTCA GGATGACGTG CAGAAAAATG GGTGAAGGAT AAACCGTTGA GACGTGGCCC
CACTGGTAGG ATGGTCTCT TGTACTCGT GTGCTCCGAC CCATGGTGAC GATGACACAC CCTGGTGGG ATGCCCGTGT
ATGTTGGTTT AGCGTTGTCT GCATTGTCTA GGAGTGAAC

SEQ ID NO:1911: (Length of Sequence = 342 Nucleotides)

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AAATGCACCCA TTTGGCTGCC AAGAGCTTCT CACTGCCTTG CTAGCAGCCT GCCACTGTNC OCTGGCAAAT TGAAACCACC
 CACGCAACA CTCAAAACCC CAATCTCCTT GCTAATAAGA TACAACCACT TAACACCGTG AAAAATGCAC ATCTCCAGCC
 TTCATTTCAA AAAAGAGCTC TGTACTAAAT GCAATATGCT TTTAAAGGGG GTTTTACAGG GACCAATCTC AATGCAAAGA
 CCAGTACCAG ATGCTGAGT TTTGGTTACA GGTTTATAAT TAGACACAAA ATTCACTCCA CACTGGAGTT TTACTTTCAA
 GCTGGAGTTA GCATTAGTTC TA

SEQ ID NO:1912: (Length of Sequence = 380 Nucleotides)

TCATGCTTTT AATACAACT TAAAAAATC TGGAAACAATA GAACTGTAC AGATTTGATC AATCTTTTTG TTTTGTFTTT
 AAATAAAAT CTCTAAACAC ACCAATGTCC CATTCAAAAA TATTCACAA CATTCGAAT ACAAACCCCT TGATGTATT
 CCTCTNCAC TAAAGAAAA AGTTCAAGAC CTGCTCCCC GGGCTCCTCT CCAGGCTTGC CTCAATGCC CTTTCCCATC
 CCTAGGGAGA AAATAAGAGA ATCTATAACT CACTGCATTG AGAAAAACAC ATCATTCTGG ACTAACAGTT TTCCATTCTT
 CAGANGNTA ATCCACCTTT TGGATTGT TCTGGGGAAA GAGGGGTAGA TAGAGGGATG

SEQ ID NO:1913: (Length of Sequence = 361 Nucleotides)

GAGACAGAGT TTTGCTCGTT GCCCAGGCTG GAGTGCATG GCGTGATCTC AGCTCACCAC AACCTCCACC TCCGGGGTTC
 AAGCCATTCT CTGCTCCG ACTCCCGAGT AGCTGAGATT ACAGGCATGT GCCACCACGC CCAGCTAAGG CTTTGTATT
 TNAGCAGAGA TGGGGTTCA CCATGTTGGC CCGGCTGGTC TCAAACTCCT GACATCATAT GATCCCCCG NCTCAGCCTC
 CCCAAGTGCT GGGATTACCG GTGTGAGCCA CTGCCCTGGG CTCTCCAGTA CATTTTITAGG GGGACGATCA ATGAGGATTC
 TCTTCTCTGA GTTACTGCAT GTGTACAGT TTATAATCCT T

SEQ ID NO:1914: (Length of Sequence = 409 Nucleotides)

GGGGGCCTTA CAACTAGGTA TGGTGGATAT TGCCCGACAG ACGGTGGAAT TTCTCTACGA AGAGAATGGT GGCATCCCAA
 GAGACCTTTA TCTTCCACC ATTGAAGACA TTAAAGACGA AGCAAACAAG TTCACAATTG ATAAAGTTGG AAAAGGTCTC
 ACAGTAGTAA CCCGCTCTCC AGACAGCAAT AATGTAGCCA GCAGTGCTGT TGGAACTGCT CTGCCAAAAT TTGCCATCCG
 AGGGATGCTG AAAACCTTTG GCCTTCAITG AGTCGCTTIA GATGTTGATT CAGTGAATGA ACTGGTGCG AGTAGAACGT
 ACCTCCGCG TGAAGGTGTG CTGGTGGGAT ACTTGGTATC CTATTTGACA TGTGGGAAA GGGCCCCAG CAGGCTACCG
 AARGGACTT

SEQ ID NO:1915: (Length of Sequence = 402 Nucleotides)

ATGGTTTATA GCAGGAATAC TTGTTCTGAA TGACTTGGAG GGAAAGTGTG TGTGTATATG TGTGTGTGTG TGTTTGTITAG
 TTTTGTGTAG GTAGGGGAGA CTATTTTGT GGTTCAGTCA CTCCAATTAT TGCCACAATG CACTTTCCCT CATAACTGCC
 CCACCAAAGG TCTTAAAGC CATTTTITGA GCCTATITGA CTGTGTTCTC CTACTGCAA TATTTTCATA TGGGAGGATG
 GTTTTCTCTT CATGTAAGTC CTGGAAITG ATCTAAGGT GATGTTCTTA GCCTTTAAT TCTGTCAA TTTTITGTGT
 CTCCCTTCT GCCATCTTAA ATGGTAAGCT GAAACCTGG NCTACTGTGG CTCTAGGGGG TAAGCCCAA AGGCCAAAA
 AA

SEQ ID NO:1916: (Length of Sequence = 382 Nucleotides)

GAAATGAGAC TTTATTCTGA AATTATTAAA AAGAACAGAG ATGCTCCATT TGGCTGCATG CAGGGGGGGC GGTGGGGGG
 ACAGAGGGGA GGACAGGGGC TCAGCCAGGG GGACCGTGTG TCTTTCCAC GCAGGACACT GTGCATGGGG CTCTGGGTGC
 ATCTGCCCAT CTGTCTATGG GCCGTGTGT GTGTNAGAGG CCAAACACAG AGAGCTCCGT GGGTCTGTGT GTATCCAAGT
 GCTAAAAGGC AGGCTGGCTT TCTGGGGCCC ACAGCTGGCG GGCTAGTATC CTGGAAGGTT TCACTTGGTG GCTTGGCCTA

GGGACCAGCA AGGGCTTGGN GTTGAAGGG GTGGCTCAAG GAAGCCTCTT TCTCCACTCA CA

SEQ ID NO:1917: (Length of Sequence = 375 Nucleotides)

GAGATTAAAA TAAACAACAC AAAATGTATT TAAATGAGAA ATTGAAATAT TAAAAATAAT ATTAGGTGAC ATTAAAACTG
TCATAGAAAT AAACGTGATA TACAACAAAT AAATCAATGA TTGTAACTT TTTTAGACAG TTTGAATATC AGATTATAAT
GAATAGCATT ATTAGCCAGT AAAAAGAGCA TATAAATTAT TTTAAAATTC CAAATAAAAA TATTTAAAAT TTTGAAATTT
TGGACCCAAA ATTATGTCAG TAATTTTCATG AAAGTAGATC TCCAATAGGT CCTATATTCT AGACACTATG AAATGACATC
AGAAACCGTC AATTAAAGTG TACCCACAA GTGATAACTA GCTACCATAC AAGTT

SEQ ID NO:1918: (Length of Sequence = 315 Nucleotides)

AATATACAGT ATGATACACT GATGTGCAGA ATGTGATTAG TTTATTAATC ATATGTGAAA ATATTAGTAG CTACATATGG
CCAGAAATAGA TTTTCTCTC TACAAATGTA AGTTAGTGT GATAGAATTT GTATGCGAT ATTTGGTTCT TTGGTTTCAG
TCTCAATGCT TTCTCTTGG CATTTTCATG ACTCTGTAA TTAACCTCAG CATCAATTTT CTTTTAAAT CAACAGTTAT
TCAAATTGAT CGGAAATTAA ACTTGTATGT AGCTAGTTAT CACTTTGGGG GTACACTTTA ATTGACGGGG TTCTG

SEQ ID NO:1919: (Length of Sequence = 285 Nucleotides)

CAGAAGTAAA AGATTTTTAT TGTCTATAG ACACTCTGA AAAGAGATCT AATTGAGAAA ATATACAAAG CATTTAAGAG
TTTTCATCCC AGAGACTGAC TGAAGCGTT ACAGCCCTCC TCTCAAGGC TCAGGGCTGA GAACGGTTAG CATATCGAAT
GATCAGTAAA AACATGCAAA AGTNGAAGG AAAGGGAAAA AGGTGCATTC CCTAAGCTG AGGGGGNTGG AATTTTCAGAA
CAGAGWGGC AGGGTGGACA AGTACCAGGT GGCTCTCCCT TTCCC

SEQ ID NO:1920: (Length of Sequence = 181 Nucleotides)

GCAGGTTTAT TTTTATTTT ATGTATTNA ACTGACTTAT TTKGTATCC CACTAGAACA ATACATTCAC AATATACTTG
CAGAACTKTG CTTGGSGCAT CAGGGGAGCA GAGAATTTT CCAGTGAATA GTTTTGAAG AAAGGAGTAA AATCTCCCCC
AAACCTTAAA GGCATCCTT T

SEQ ID NO:1921: (Length of Sequence = 351 Nucleotides)

AGACGGGGTC TCACTCTKTC GCCCAGGCTG GAGTGCAGTG GCGCAATCTC AGCTCACCGC AACCTCCGCC TCCCAGGTTA
AAACGACTCT MATGCCTCAG GCTCCCGAGC AGCTGGGACC ACAGGCACAT GCCATCATGC CCGGCCAACC TTCTGTACTT
TTWAGTAGAG ACGGGTTTT ACTGTGCCAC ACAGGCTGGT CCCGAATCC CGACCTCAGG CGATCAGCTR CCTCAGCCTC
TCAAAGTGCT GGGATCACAG ACGTAAACCA CCATGCGGGG CCCAGTCTT TTCTTCAGAG GGCTCCTNAG CACCCCAAC
CCCAAACCTG AGGCCTGTGA GAGTCTATCC G

SEQ ID NO:1922: (Length of Sequence = 198 Nucleotides)

CCTCATCTGG ACACAGATGA TTTGCCAAG AAGCGGCTG CCCAGATCTG CAAACCTTGC AACCCAGCAC TCTTGCATAT
CTCGCTTAGC GTGTCCACAA CTGGGATGCT AGCTGGGTA AAGATGCTCA CGCAGCCACC AGTGCCTCTG CCGTCCATAA
GTGCAGTGTG ACTTACCCCTC TGAGAGTGGC ATCTGCTG

SEQ ID NO:1923: (Length of Sequence = 303 Nucleotides)

TTGATTTGCC TATGGTGTGA AATCCTTTGT TATTTTCTA AAAAAATAAA ATTTAAAAAG AAAGAAAACT AAGGAAGAAC
AAGANGCTAT TTACCCAAAG TGAGCTTNC A GTTTAGTTT TGATGGCTG TTTGACTGCC TTTCCGCCCT ATGAAAATCA
AGAAAATCIT TTTTAAAAAT GGAGTCTGCT TATTTTCCAC TCCTTGCAGA TAATACAAAT TCAGTTTGTG AGGTTGGATG

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GTGAGTGGG AGCTGTGATG GATCTGTGG CGGGTTTTGG ATGTGTAAAG AATGATATAT ATA

SEQ ID NO:1924: (Length of Sequence = 231 Nucleotides)

GTCCGCCCTG ATTCTCAACC TTTGCAACCT GCCTTCGGTC ACTGCTAGGT CCACGTAGGC TTAACCTTGA TCTTATATGT
AGGACCGGTC TTCACCTTAA GCAAGAGAAA TGTAAGAAGT GNTTCCCAA CTCAGTTGCT GGCCCGAGCTT TGGCCTCGTG
TTCCCTTCT GAGGACTGAC CTTTGGTATT GCTCTGGAGT CTCATATCCC CTTTGGCCCT AACTGACCAC G

SEQ ID NO:1925: (Length of Sequence = 249 Nucleotides)

GTTTTACTT AACCATCTTA TTGTGGGAA TTGGGTTTCC ACTTTTTTNT TATAGATAGT GGTGCAGTGA ACATTTTTAA
ATAGCTTTTT NCTTCAGTGT AATTATTTCC NTAGAGAAAG TTACCAAGAG TGGTTTTACT AGTTCAGAGG GCTTCAGGAT
TTTATGGCT CTTCCTAGCG GTGCTCTATT ATCCINNAGA AGACTTGTAT TACTTCCAGT GTCAAGAAGG TTGCNCTTCC
ATGGAATGG

SEQ ID NO:1926: (Length of Sequence = 367 Nucleotides)

TTTTTCTCAG CAAGGAACAG TCATGAGAAA GAGAATGCGT TCCTAGGGGG AGGTCTCTAA AATGGCCACT CTGGGACTGT
CTGTCTATA TGGTTGTGGA TAAGGGATGA AATAAACCOC GGCTCCCTT AGCGCTCCCA GGCCTATTAG GACGAGGAAA
TTCCCGCCTA GTAAATTTTA GTCAGACTGG TTGCTGTTC TCAAACCCTG TCTCTGATA AGATGTTATC GATGACAATG
CATGCCGAA ACCTCATTAG CAATTTTAAT TTGCCCCCGT GCTCTGCCAT TTGCCTGTG ATATTTTATT GCCTGTGAA
GTATGTGATC TCTGTGACCA CAACCTATTC GTACANTTCC TCCCCTT

SEQ ID NO:1927: (Length of Sequence = 231 Nucleotides)

CTTTTATGG GGGCGGATAC CGCAAGGGCC CGCCACGGT CAGGTTAGTG TTCTGCTCTT GCAGAGGCGC KACAGCCTGA
CACCTCCACC TGCCACCCGC CGGGGTTAG TGGAAATGC AAAGCTCAGA GGGTGGAGGC AGGGGTGGTC GCTGCTGAGA
CCAGGGCTGN GTGCAACAGG AGGGTCAGCA CAGAGCCTGG CTGGTGTCCC TGGGCCCAA GGGGGCTGGG G

SEQ ID NO:1928: (Length of Sequence = 283 Nucleotides)

CCCCTGCTT CCCCTGAGCC CAGGTATGTA ATTCTACAC AACTGATCG AGCTGTGNTG TGTGTGTATA TGTGTGTG
TGTGTGINTT AATGTGACAT GCATGTACTG ATCCNGAGAA GCCTTTATAC CAAGAATAGA GCTGGGATCT CAAGCCCACC
CTCCCAAGAT CAGACAGCAG AGTGAACCAG GAGGCCACGA CAGGCCTTGT GTCARATGGC AGACGNTGCA GCAGGAAGCA
GAACCAAGG ACGGGGRNCA TGGGATGCTA TKGGCAGCCA GCT

SEQ ID NO:1929: (Length of Sequence = 287 Nucleotides)

CTAGGAAGTA GGGAGAGAAT TTACTAAGTA AGGAGAGAAA GGAAAAAGAA CAAACATGGA ATATGNTCAA GCAAATAACT
TCCAACAGAA ACAAGANGAT ATGTTTTAAA ATATATTTCC CCTGCCAAT AGTAAACTT ATTTGAGGCA CAATGCATT
CTGAGGTGAA ATTAAAGTGA CATAAAATTG AAAACATCAC ACTGGANAAC ATTTATGGG GCTCACTGA AGGTGGCATA
GTCCAGGAAG GCATTTGGAC ATGTATGGG TGTTTCTTG TTGCCCC

SEQ ID NO:1930: (Length of Sequence = 357 Nucleotides)

ATGGAACACT ACTGCAACAG CTCACAGAC CGGCGGGTTC TGCTCATGTT CCTGGACATC TGTTGAGAGC TGAATAAGCT
CTGCCAGCAC TTGAGGCGG TGCACCTGG CACCCAGTC ACCAACAACC TCCTGGAGAA ATGCAAAACC CTCGTTAGCC
AAAGCAACGA CTTAAGCAGC CTCAGAGCAA AATACCTCA TGATGTGGTG AACCACCTCA GCTGTACGA GGCCCGGAAC

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CACTACGGCG GCGTGGTCAG CTCATCCCC CTCATCCTAG ACTTAATGAA AGAATGGWTC GCCCACTTCG AGAAGTTGCC
GCGCAAGGTG CTGCAGGGCA CGCGGGCTGC CTGCACT

SEQ ID NO:1931: (Length of Sequence = 343 Nucleotides)

ATCACTTCCC CACCCACAG GATCTGCCCC AGAGAAAGTC CTCGCTGTC ACCAGCAAGC TTGCGGGTGG CCAAGTTGAA
TGATGCTGCC CGGGGCTCTG CCAGATCCTG AGACGCTTCC CCTCCCTGCC CCACCCGGGT CCTGTGCTGG NTCCTGCCCC
TTCTGCTTT TGACGCCAGG GGTGAGGAG TGGCTCGGT GTGGGCTGGA GAGGCAGAAG CCCTTTCTTG TTGGTGTCCC
AGCACATGGA GCCCCTTGGG CTGAGCACCA AGACCTTGAA CCTTTTGT TTTACCTTT TTCCAAATAA CAGTTTGAG
AAATATCAAT GAAATCTGGG GGT

SEQ ID NO:1932: (Length of Sequence = 314 Nucleotides)

TTTATGGGT TTTGTTTTG TTTATTGGA ATACTGAAAA AGTCCCTTGG GCTCTGTGGG GTTCCCCACG CTCACGGCTC
CTTTCTCCA CACTCACTGC CCTCTTCCC ACAGCAAATC TATTTCAAGG ACAGTACTTT TTAATATGAT TAATGTTGAG
TTCTCAACTA GCTCTGAGA ACTAGAGGAG CTGTTTGCAT CTGCTGTGCG GGATGGAGTT TCTTTTATCT GACACCAGGT
CTCCAACCAC ACTGATGCAA GGCATTTTAT CTACAGAGCT CAACTAGAAC CCTTTTTC TTAGGCTACT CCAA

SEQ ID NO:1933: (Length of Sequence = 378 Nucleotides)

AGCTTCTGC GGGACCACAG CTATGTGACT GAAGCTGACA TCATCTCTAC CGTTGAGTTC AACCACACGG GAGAGCTGCT
GGCCACAGGT GACAAGGGCG GCCGGTCTG CATCTTCCAG CGGGAACCAG AGAGTAAAAA TGCGCCCCAC AGCCAGGGCG
AATACGAGCT GTACAGCACT TTCCAGAGCC ACGAGCCGGA GTTTGACTAT CTCAAGAGCC TGGAGATAGA GGAGAAGATC
AACAAGATCA AGTGGCTCCC ACAGCAGAAC GCCGCCACT CACTCTGTT CCACCAACGA TAAACTATC AAATTATGGA
AGATTACCGA ACGAGATAAA AGGCCGAAG GATACAACCT GAAGGATGAA GAGGGGAA

SEQ ID NO:1934: (Length of Sequence = 239 Nucleotides)

ATTTAAATTG ACAGCCTTCC ATTTTTCGAG AAAGTACAAA CAGAAGTCT TTAGCACCCA TCGAGCCCCA AACGGGTAAG
GTAAGCCAAG GTTTTAATGA CCAGCCAGT ATCTAAGCTT CCAAACGGAT GCCAGCCCAT CACATACTYA CCCTGGGAGG
CTGCTGCACG GGCATTCTCC YGATGCTCAC GGCATTGGK GTAGGTTTCA RGATCGCCTC TTGAGGAAG GACTTCAGG

SEQ ID NO:1935: (Length of Sequence = 319 Nucleotides)

TTAATTTTT TTTCCATAG AGGAATAGCA TTACAGTCTA ACAATCAGAA TTCTGTTACA CACATACACA GGCATGCCAC
ATGACCCAGT TGAGGTTGTT GTTTCCTTGA GTCTGTGAC ACGTCACATG GTCAAAGTCT CCTCATTTCA GCCAGTCTCA
ACACAAAACA CCCAACAGG ATGCACTCAA CTGTGTGTT CCATGTGGAA CTAGGTGGCA GGGCGAGAGG GAAAGTAGTA
GAAGGGGGCT ATGGTGTGTC TGCATTCACT CCCCTCATAT AAAGCCACAT GGATCTAGGG GGGGTATCCA AGAGCTCTG

SEQ ID NO:1936: (Length of Sequence = 415 Nucleotides)

CTATTTTAC AAATATAACC TAATGAGTAA AATTAGTGA AAGTATAAC ATGCTTCTAC CTGTATTCT AGTGACCTT
TAGCGGCAGG TATTTATACC TGGTATTAT GATGAGTAT ATAAGTGGT AACATAACT GACAGTATG TGCTTGCTGT
ACATGTCTGG TCTTTGAAA CAGATTTTAG TAAGCATTTT CCAGAGGTAA AACTGTGTCC TTATTTCTAAT TTTATCTTA
GGGCAAAGTA GACAGGGATT ATTTCTTGA ATCTATTTCC AAATTAATAT TTTTCTTTT GGTATTCTTA CACTTTAAGG
CCATTGGTG CAATTTAGAA AGTGTGGCC TCCCTCCGC TAGCCACATT CAAAATTAAC TTCCAAAACC TCAGGAACAG
TACAAGGAAT TTGAA

SEQ ID NO:1937: (Length of Sequence = 393 Nucleotides)

TCACCTCTGT CACCCAGGCT AGAATGCAAT GGCACAATCT OGGCTCACTG CAACCTCCGC CTCCCAGGTT CAAGTGATTG
TCCTGTCTCA GCGCCCAAG TAGCTGGGAT TACAAGCACT TACCATCAG CCCAGCTAAT TTTTGTATTT TTAGTAGAGA
TGGGGTTTCA CCAITGTTGGC CAGGCTAGTC TCAAACCTCT GACCAGCGGT GATCCACTCA CCTCGGCCTC CCAAAGTGCT
GGAATTACAG GCGTGAGCAC CGCGCCGAGC CTGINTTTCA TGTTAGATCA TAATATGATC TCACCAGATC CTTACTGAAA
ATGTACCTTA TTACAAGTAG CTAAATTTC ACATAGAGGG NTAAAAAGAT TGGGAATCA GGTTATGACT TTT

SEQ ID NO:1938: (Length of Sequence = 407 Nucleotides)

GGCCTCCCTG TCGGGTGCAA TGCACTGGCT CAGATCATAG CTCCTGACG TCTCGAATC CTGAGCTCAG GCAGTCTACC
TACCTCANCC TCCCAAAGTG CTGGGATTAC AGGGTGAGC ACCGCGCCCA GCCAGAACAT CTGTTTTTAC ACCCAGAGAG
CGCCCTCGT TAGGACAGAA CCACGGTGCC CAGAGCCAGG AAGCGCCCT CCTGGCGCCC AGCATCTGAG CTTCTACAG
TGATGGGGG GCTCAGGAGA GGACAGGGAG TGTGTGTGA AGTTCCACAG CTGGCCGGT GGGGGGGCCC TTGCACCGCA
CTTGCCGCT CTGACTGCC CGATCCCG CAGCCCTGT GCGGATTGC ATTTCCTCC TTTCTYCCAG GGTACTGGCC
CCAGCAA

SEQ ID NO:1939: (Length of Sequence = 412 Nucleotides)

GACATGCCAC CACACCAGTT AATTTTTTGT ATTTTCAGTA GAGATGGGGT CTCACGATGC TGTCTGGGT GGTCTTGAA
TCCTGAGCTC AGGTGATCCA CACTTCGGCC TACCAAAGTG CTGGGATTAC AGGCGTGAGC ACCGCGCCCG GCTAAAGAA
AGGAGATTCT AATGCATGCT ACAACACCGA TGAACCTTGA GGACATGACG TTACGTGAAA TAAGCCAGGA ACAAAGACG
AAGGCTATAT GAATCCACTC ATATGAAGTA CTTGATTAG CCAATCCAT ACAGAAAGTA GAACAGTGGT TGCCCGGGG
AGGGGAAAT GGAAGCCTA TATTTAATGA GTCCAGAAGC TTTTTTTGG TTTTGTTTT TAGACGGAGT CTCGCTCTG
TTGCCAGGC TT

SEQ ID NO:1940: (Length of Sequence = 421 Nucleotides)

ATCCATCCCC TTGCCAGGG CCTCAGTGC CGGCTCCCC CAACGGTCC TCCCCCTGG GCTGCCGGTG CAGCTGTGGG
CCCAGGCTTT GGCAGGCCCA GCTCAAGAC AGTGGGACAC AGAAAACACT TTGCAGCATC GCCTCTCCCT CGCCACACC
CAGGTACGA GAGATGGGCG CCCACCGAG AGATCACAGC TCTGTACAG GGAGGTGGGC AGGGTTGGAG AGGAATGGAG
AGACATGTCA CCTCTATAGA AACCGTCCA AAGTACAAGC TAAGCAGGGG GAAGGAGGAG GGCCAGAGAG CAGCCGAAA
GAAGAAAAGA GGAACAGGC AGGGGTTCT KGGGAGGAG GGCCTACAM CACCCCGAG ATGAGCGTCT TCACCAAGAA
GGTGTCTTC GAAGTKGGG T

SEQ ID NO:1941: (Length of Sequence = 377 Nucleotides)

GTCAGTCTA GAGGCACCT GCATCATGCC CACCAGGGT ATCCCCCTGG GATNGACCAT CTGGGATAT GAGGCCTCGG
AGGCTGGGT TGAGATTTGG TCCTGAAGAG CTTATAGCCA GATTGCCACA TTCAAGTGTA AGTCCAGGAA AGGGGCAGGC
GGCAGTCAC AGGGATTTAT CAGTCCAGA ACCTCAGT GATAAGAGGC TTTAGAGAGC ATCTAATCGA GACCTTTAAT
TTTTCGGGA GAGCAGCTGA GGCGTGTGG AAAATTAGTG GAGAGCTGAC AAGTGTCTG GCTCCGCGC CAGGGGTCCG
TGGTCCANCA CGTTGTGTT CAGTTGGAAG CAAAGGGCTT GCGGTGATT ACCTTC

SEQ ID NO:1942: (Length of Sequence = 401 Nucleotides)

TGAGAACATT AAGAAGGACA ACAAATTA ACATTCTTTA ATAAAAATCC TATAGAAAGC TCAGTCATAG GGCAAATACT
CATTTCTCT TCCCATATCA CCGAGGATG AGAGCTCCA ATATTCTTG GAGAATAAGC AGTAGTTTTG CTGGATGTTG
CCAGGACTCA GAGAGATCAC CCATTACAC ATTCAAACCA GTAGTTCTA TTGCACATAT TAACATTACT TGCCCTAGC

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ACCCTAAATA TATGGTACCT CAACAAATAA CTTAAAGATT TCCGTGTGGC GTGAACCATT TCAATTTGAA CTAATATCCT
TGAAAAAAT CACATTATTA CAAGTTTAA TAAATACAGT AGAGAGCTGG CATTTTTCTA AATACGGAT TTCAGATCTG
G

SEQ ID NO:1943: (Length of Sequence = 351 Nucleotides)

CAACTCAGGT TAGCAACTGC AGGAAACTT TCTTCATTTT CACTGAATTT TAAAGAGAGA ATCCTGTCTC TATTTCTCAG
AGAACTTAG GTGAAAAGTA AAAGAGAGGC AAAATCTCTT TCCTTCATGA GATACTTTTA TTTTATCTC TTTCTCTACT
CATGTGCTTA ACTGGTGAAT TGATTCTGTA GAAATAGATC CTTCGTATTC TGCATCTCAT TTCTTTATGG CAACTACAAC
AGGAGGAATC CAGCTGGAAA TGCCACTAAC CCCACATCCA GCACCTGAGA GAGGAAGCCA GTCCGAGCGC CGTGTCTGGG
TCACTCACTC TGGCCTGCGC ACTGGGGTTG T

SEQ ID NO:1944: (Length of Sequence = 406 Nucleotides)

GCCCAGGCTG TCTCAGAATC TTGATGGGGT GGTCAATGAG CTCTCTTCC GCCAGAGCAA GATCAGTGAA GTCCTGGGAG
GCACTGGCTA CAACTCGGAC CGGCTCTGCC TGCCCTACAT TCCTCAGCTG ACAGATGAGG ATCGTTTATC CAAGAGGAGG
AGCATTGGAG AGAACATCTT CCTGAGGAT CCCGAGGATG GTCTGGTGAA GACCAACATG GAGAAGCTGA CCTTCTATGC
CCTCTAGCT TCAGAAAAAC TTGATCGTAT TGGCGCTAC CTCTTTGAGA GGCTCATCCG TGACGTGGGT CGNCATCGAT
ATGGGTACGT GTGCATTGCT ATGGAGGCTT TGGACCAGCT GCTCATGGCC TGCCACTGCC AGAGCATCAA CCTCTCTGTG
GAGAGC

SEQ ID NO:1945: (Length of Sequence = 362 Nucleotides)

TCAAATTGTG AAATTNAGAA TTCGCTATG ACAAGTGGAA AATTGAGAAA AGACGCAGAG CCACTTTTTG TNATCGTGA
GGTGACAAGG AGTCTCCCAA GTATATCCTG CTAATAGGAG TAGCTCTCAA AAGTTAATCT CAATAAGCC TCCTAAAGTC
TCTGGCAAAG AAAACTGCTG CAATCCCTTG TGCAATTCTC CAGACTAAGC TGTATGGGGG AAGCCTACCT TTTTTCAGCC
CGAAGTTCAG GAGACTGAGG ATGTAACGGG GGACATGATC ATTGNTTCAA AGGTGATTGC TTAAGTATCT TAAAAATGTA
TAGAGCTAAT CTGAGTACCG CTTAAATTCA AGAGCCGTGG CT

SEQ ID NO:1946: (Length of Sequence = 408 Nucleotides)

AACCTCINAC CCCCAGGTTT AAGCAGTCTT CCCACCTCAG CCTCCCGGT AACTGTTCTT TGTAACCTTC TCATCATCGA
GGCTATATAT TAATAGACAT GGTATTAAGC CCACACGAAA CATTGAGAAT TAGAATTGGA TTAAGAAGAC GCGTTTGGC
ATCAGCTGA CTACTCTCA TCTCCGTCT CGGGAGGGT GATGCCAGCG TGGGACTCTT TGGAGGCCT ATCAATCACA
GGTGGCTAA AATCAAAAGG TGGGTGAGTA GGTTAGGGAG GGGGCGCGA AAGGAGATGC CAGCGGGTGT TAAGAAGGAT
ATGGTCAGAA GAGCTCTTG TCTCCATCCA CCGGGCTCT GCTCAGCCG GTTGTCTCG GTGAGTAATT CCGGAGCAGT
GCACGGCT

SEQ ID NO:1947: (Length of Sequence = 426 Nucleotides)

CCATTGACA CTGTACTAT CTGCAACAGT TCTTCAGTA GAGGATGCAC TTCAAAGTGC ACTGCTTTAC TGTCTCACTG
GAATTCIAAA AATCTAAGCT TTATCTTTT AACATTAGC TGTGTGGAA TGTAGCAACC TCCTGGGTGG TGGGGTGGG
GGCATCTTCA ATTATTTAGG TCTCACTGGA AAGTTTGAGA TCAGAGTTTG GTAGGTGGT TAAGGGGACA ATGAGTAAGG
GAGAGAAAAT ACAGGACTGA CTTGGGGCAA AAAACGCTG ATAATAATTT GTGAAGCACA TTTTCAAAC CATTATTTCC
TTACAAGGAT CCTAAGAGG GGTATTATG TCNGGTAT ACCTGGAGG TTAATTGAA GGAACATCTN CAAGGGCACA
CAGTTTAATG AATGGCTGAG GTAGGA

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SEQ ID NO:1948: (Length of Sequence = 349 Nucleotides)

TTACAATCTG GCTGGAAACA GATAATTAGA ACATATCACG AGAAACAGAA CAGTTAAGTG CCAAGCTCTG GTGGAGGTTT
TAAGTGCCAG AGGTCAGGAT ATATTTTAA GTGCTTCTGC TTCCAAACAT CACTCTTTCA AAACAAAACA CAAAGATCCC
CAACCAGCAT TTCTGCCCC TGAGGCACCA GCAAGGTATA TAAACGGGCT TGCAAAGTTT GATATACGGT CTCCAGCCTG
GCTTTCTTTA GTCTGGGCTC AAAAGCCAGA AACCTCTGGG GGCCAGAGAA GCGCTCTTTG TTTGCCAAAC AGCATTTCTG
CACATCCTGT TCTACAGCAC CGTCAGTTT

SEQ ID NO:1949: (Length of Sequence = 378 Nucleotides)

TTCAATCCTG ATTTTATCCC AGCTGTGGG GATATTGATG CATTCCTTAA GGTCCACGT CCTGATGGAA AGCCTGACAA
CCTTGGCCTA TTGGTATTGG ATGAACCTTC TACAAAGCAG TCAGACCCTA CGGTGCTCTC ACTCTGGTTA ACAGAGAAIT
CTAAGCAGCA CAACATCACA CAACATATGA AAGTAAAAAG CCTAGAAGAT GCAGAAAAGA ATCCCAAAGC CATTGACACG
TGGATGAGA GCATCTCTGA ATTACACCGT TCTAAGCCCC CTGCGACTGT GCACTACACC AGGGCCATGC CCGACATTGA
CACGCTGATG CAGGAATGGT NCCCGGAGTT TGAAGAGCTT TTGGCAAGG TAAGCCTG

SEQ ID NO:1950: (Length of Sequence = 357 Nucleotides)

TCACTAACTT TACGAATGAA AGAAAACAAT TCCATCCCTC TCACAAAAG GACATCTTTT AAGCTTTCCT CCCAATCTAA
CCTCCATGGG ATCTCAGAAA TTCCAATTCT TATAACTCAA ATCCCACAG TGGTGTAGAT GCATTAACTC CCCGGGACAA
GCAATCTGAG GCAGGCAGGT TCATTAAACA AACATGTTCT GTGCCCTCTG GCAGAGAGGG CAGCAGGACA TGCCTGCCC
CTGAGCCAAG CTGTGGCATG GGCAAGGACA TCAAGTAGCT GACAACGGTC TGTCCATCTC AGCTGGGGCA GAGGGGCCAG
TTCAGCCTTG AAACAGCAGT TNGGGAGTGT CTCAGCT

SEQ ID NO:1951: (Length of Sequence = 336 Nucleotides)

CTATCTCCCC AAATCTACGT TTCACCAITT GTACTGTTAT TTTTITAGCC CAAGCCACCT TTATGTCACT CCTGGAACAT
AATACTGCT TTCTACTCA TCTCCTACAT TTINACCTCT TATATACAG TCCACCTGT ACOGACAA CAGAGTTATC
TTCTGAAAT GCATATTAGA TCATGTCACA TCTCTACTTG AAGCTCTCTA AAGATTCTC ACTAAAAGCG AAGTCTAAAA
TTTCCACCA GACCTATAAG GNCCTTAAAT GATCTTACCT CTCTACCTAC CTCTNOGATC TTACCTATCT TCAACCTCGG
TCTATTTTC TATATC

SEQ ID NO:1952: (Length of Sequence = 413 Nucleotides)

CAGTATGTAA TTTAATCAGC AAATGCCCA TTTCATCTC TACCGGAAAG CTTTCAGACG CATTCCCAGA TCAGACAGAG
GACTAGGGTT AAGGCTGGGA ATGAAACACC AGCTAGTATC CCAGTGAGCT TTCCCAACA CACATACACA GCAAGTCAGA
CTAAACAACG TCCAACTGAA GACTCACCTC AAATACTTAG ACCTAAGATT CAGTCCAGG CTCTTTCAGA TACACCAGGT
AAGTAAGCAC TTGGCATTCC TATCTCAGCC ATTCACTTCA CAGAATCTTT TGGGTGCCIA CTGTGTGCC AATACTGTGC
TTAGTGGTAC TTGCCCTCAG CAGGAAAAA AATTAAAGT GTTAAATGTT ATGAAGGAAC AGATTGGNAT AGGAATCACA
AGGCATTGAG GTC

SEQ ID NO:1953: (Length of Sequence = 382 Nucleotides)

GTTCACTCT TGTGCCCAG GCTAGAATGC AGTGGCGATC TTGGCTCACT GTAACTCTG CCTCCCGGT TCAAGTGATT
CTCTGCTC AGCCTCCCTA GTAGCTGGGA CTATAGGTGC ATGCTGCCAC ACCCAGCTAA TTTTITGTGA TTTTITAGT
AGACAGGTT TCGACATATT GGCCAGGCTG GTCTTGAAT CCTGATCTCA AGTGATCTGC CCACCTAGGT CTCCAAAGT
GCTGGGATG CTGGCTGAG CCACCGCACC CTGCCTAGAA CATGCTTTIN AATAGTGTCT CTAACCATCA TGTITAGGGC

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CITAGTGCTT ACCTCTTAAA GAAGGGCTGC TGTGTAGGAT TCCNIGAGAT AGTGTTTGAA AA

SEQ ID NO:1954: (Length of Sequence = 389 Nucleotides)

GGAAAAGCGG GACCCAAACA GTGGTGCTGG GGAAATTTGT TCCTGTTCCC TTGGGAAGGC TGAGTGGGTG ATGCAGCACA
GGAACAAGGC TTGGACGTCA GAGGTCTCAT CTTCACITGTG ACAAAGCATA AAGGACTTGG GGTGAGCGT GTGINTGGGC
TCAAGTGACC ATGCAAGTNC TGTCACCTCC TTCCTAAGAC CCCATCCTTC TCCCAAGTCC TCCACAAGAG CTACCTTCTT
CAAAACAATA ACAGAAACAC ATCAAGNTIN GCGTCACTGA AATTGAAGTT CTGAATTCGT CCGTCACCCC AGCAACAGTG
CCAGTTATGA TGAGACACTT GACCCAGCAC TTGGGTTGAT GTCPTTGGCT GTTACCGTGG CACCTAGGT

SEQ ID NO:1955: (Length of Sequence = 277 Nucleotides)

GCCTCTAACT CCACGGCTCA AGTAATCCTC CTGCCTCAGC CTCCTAAGTA GCTAGGACTA CAGGTGCACA CCACCACACC
CAGCTAATTT TTTTNCITTT TGATTTTGG TAGAGATAAG GTCTACTAT GTTGCCAGG CTGGTCTGAA ACTCCTGGCC
TCAAGTGATC TGTCTTAGCC TTCTGAGTAG CTAGAAGTAG TTTTAATGAC CNAAGAATT ATGTGTTTAC CNGTGATTT
ATGTGTTTG TTAAGACATT CAGAATTTAG AGAAATG

SEQ ID NO:1956: (Length of Sequence = 380 Nucleotides)

GTGTAATGTT CTGAGGGTGG CGAATGCAGG GCGCGTTC TCCGCTGTC GATCTGGAAC ATCTTCTCGC CAACAAAGAG
CAGGGTGAAG ATGAGGGCAA GCTGGTAGAC AGCATGGCCC AGGATGTTCT TCATCATGGT CCTGGAGATG AGCGGCTTGT
TGCGGCGTA CGGTTTCTC AGCAGCAGG TCTCCGTGGG CGGCTCAGTG GCCAGTGCCA GCNAGGCAAA CGTGTCATG
ATGAGGTTCA CCCAGAGCAT CTGCACGGCC TTCAGAGGGG AGTCTGCGT GATGCAGGCG CCTNTAAAGC CACAATCAG
GCCACCAGT TGACGGTGAA GCTGGAATT CAAGAATTIN GAGATGCTGT CATAGACGTT

SEQ ID NO:1957: (Length of Sequence = 328 Nucleotides)

TGTGATGTTT CTTTTTAGC CTGTTGATGT GGTGAATTGT ACTGATTGAT ATTTGAATAT TAACTGGCT TTGCATCCCT
AGAATATACC TCACCAGTC ACTGTGTAAT AGGTTGGTGC AAAAGTGCTT GCCATTTTGG ACCATGAATT TTGAATCATT
AAAAGTAGGC TCAACACAT CTGTATTAAAT CAAAGTAAGA ACCATTACAA TCAACACAAT TTGCCAACA AGAAATAAGT
TTGTTTACTC CTGTAGCATA AAAATCCGTG CTTTGAGATT CGAGGAACCT TTGNAAGCA CTTTCTGCAT CCTGCTGGT
GTGGAAGC

SEQ ID NO:1958: (Length of Sequence = 254 Nucleotides)

CTAGAAAGTA TCTTCTCTTT ATTTAAGTTA AACAAATTC AAGGATGGIT TCCATCTATA AAATGGACAA AGTACAAGCT
CTGTACAGCA GTCTTTTTTA AAAATCAACT GGAAAAAAA ATTACCAAC TATATTTTGA ATTTGCAAAA CATACTCACA
GATACCATCA TCTGAGCTTT TATGAGGCA TAAGAAAGN CCACCACAGA GAAGACAAT AACTTCGGCA CGCTTTGCTC
GAAGGGCTCT TAGG

SEQ ID NO:1959: (Length of Sequence = 259 Nucleotides)

GTAATACGAG AAAAATCACA ACAGAGTAAT AAGATATAA AACTTTCACA ATTAACACTC ATCAGTGTGA TAACTAAGC
CCATGTAAAA GTAAAAATCT CTCACAGTTA ACAAACGTCT TTAATTTTAC TAAGAAGGAA CTGAAATTAA AGTCCTTAGT
CACTTTGGAG GTGGCTGCAA AAGCTCACA CATAGTTGAT CCTTAAATA ATTATGAATG GCAACCAAGT CTGCCCTTCT
GTACTCAACC ATGCAACTG

SEQ ID NO:1960: (Length of Sequence = 329 Nucleotides)

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GACTACAGGT GTGCCCCACG ATGCCTGGCT AATTTTAAAG GTTTTGTAG AGATGGGGTC TTCCTATCTT GCACAGACTG
 GTGTGGAATT OCTAGCTCAA GCAATTTTCC TGTCTCAGCC TCACAAAGTG CTGGTATTAC CCGTGTGAGC CACCGTGCTC
 AGCCCACTCA TGTATTTCTA ATTATTGTAT TTGTGAACATA ATCTATGAAC AACAAAAACA AACAAACAA CAAAAAGGGT
 GGCATTTCTG GGCCACCAGG GAAGGTGGGA TTGGGGTTC AGCTATTTTC AAATTATATT AAAAGCAGGA TCCAGTTAG
 AGCGCTATC

SEQ ID NO:1961: (Length of Sequence = 282 Nucleotides)

ATCTCCAC CTCAGCTCC CAAAGTGGT AGATTACAGG NTCAGCCAT CGCACC CGC CCAATTATTC TTTCTAAACC
 ATTTCTCTT CTGTGTCAT GCCTTAAAA ATAAATTA AAAAAAAAAA AAAAAATC CTAAATTT CTCAGGTGTT
 TTCCATATCA TTTTATTATC AAGAATATGG CTAATCAGAA GTCACAGCCA GCGCCGAAC TACAATACA AAACATGCAT
 ATTATAGGCT AACTGAGGG ATTTCTGAGG TTAGCAGATG CA

SEQ ID NO:1962: (Length of Sequence = 328 Nucleotides)

TGCTGGTGC CCGCTGTCA TCTCAGGAG GCCAATCAG TCCAGCCTC TCCACCATC TTCCTGCAG CGATTTCTTC
 GAGCTGAAA CATCTCTGGC GTTGTCTGG CTGACCCTC TGGTCCCTC CATAACAAAT ATTACCAGAG TATTACGAC
 ACTGCTGAGA ACATTAATGT GAGCTATCCC GAATGGCTGA GCGCTGAAGA GGACCTGAAC TTGTATACAG AACTGCCAA
 GGCCCTGGCA GATGTGGCCA CGGTGCTGG ACGTGTCTG TATGAGCTTG CAGGAGGAAC CAACTTCAGC GACACAGTTC
 AGGCTGAT

SEQ ID NO:1963: (Length of Sequence = 277 Nucleotides)

CCAAGAGACA CCCCCGCAC TCCTGTGCCC GAGCTGTCTC ATCTGTGATT CACAGTCTGC TCTTTCTGGC TGCTGTCTG
 GAGAAGTGAT TTINAACCCC GAGGTAGAA AGGGAGCTAT TTTTGTGCTG CTTTTGTGTA AAAGGCAAT TTTCTGTGG
 GGACTGGCTT TACCCGCTCT ACCTAAATCA TTCTTACTG CCTCTGTAA CAGTCGCCIT TTGTGTCTG CTGNNATTG
 TTTGAACACA GTCCACAGGT TCAGTGGTIN CATCTCT

SEQ ID NO:1964: (Length of Sequence = 230 Nucleotides)

CAATGCAACC TTTTAATTCC AAGCAGAGTC CCGCTCCCC AGCATGGTCA CACACACAGT GGAAAGGGAT GTCAGGGTCT
 GGGCAGGAGC AATACCCAGA CCTGGGCAA AATATAGATA TCATTATATA CACACGTGGA CTGGAAAGAA GTCAAGCTGG
 GGGTGTAAAG TAGGGCAGGG GCAGGTGAGG AAAGCAGCTG GGGGGGCCCC AATAAATTAC ATTCTTGAGA

SEQ ID NO:1965: (Length of Sequence = 299 Nucleotides)

CGCCGTGGAT CCGAGAAGG CACAGCAGAT GCGCTTCCAG GTGCATACCC ACCTTCAAGT GATTGAGGAG AGGGTGAATC
 AGAGCCTGGG CCGCTTGAC CAGAACCCC ACCTGGCTCA GGAGCTGGG CCCCAAATCC AGGAATCCT CCACTCTGAA
 CACCTGGGTC CCACTGAATT GGAAGCCCT GCGCTGGG GCAGCAGCGA GGACAAGGT GGGCTGCAGC CTCCAGATTG
 CAAGGATGCA GACACCCCA TGACCTTCC AAAAGGTCC ACAGAACAAG ATGCTNCAT

SEQ ID NO:1966: (Length of Sequence = 320 Nucleotides)

GTCCCTGCAC ATGCGTCTGG CAAGACGGT CAGCTTTGTG GTCTGAAGCA GGAAAGTTG TCTGINCTTA GCCAGTAGCT
 TGGCCCTGTT GCGCTGGT GTGTAAAGAG AGAGACTTGT AGCTTCAGGT CTGGATAAAT NACCCCTGA GTGTGGCTCC
 GTGTGCCCC GAGTGGCCCC CTCAAGCTGA GTTGGGTCT TCACTCCCC ATACTCTTC CAGTAGATCC AACAGGAAGC
 ACAGAGGCGG CACTGCATGT TAGGTGGGCC CCAGGCATAC CACTGAGCAG ACTGTGTGGT GTGGCAACTC TCACAAGTCA

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SEQ ID NO:1967: (Length of Sequence = 296 Nucleotides)

GCTCTGCTGG CCGTGCAGAA GCTCATGGTG CACAACCTGG AATACCTTGG CAAGCAGCTC CAGTCCGAGC AGCCCCAGAC
 CGCTGCCGCC CGAAGCTAAG CCTGCCTCTG GCCTTCCCCT CCGCCTCAAT GCAGAACCAG TAGTGGGAGC ACTGTGTTTA
 GAGTTAAGAG TGAACACTGT TTGATTTTAC TTGGAATTTT CTCTGTTATA TAGCTTTTCC CAATGCTAAT TTCCAAACAA
 CAACAACAAA ATAACATGTT TGCTGTATAA GTTAGGTGAT TCTGTA

SEQ ID NO:1968: (Length of Sequence = 311 Nucleotides)

ACCCCTTCA CTCCTCCCA CCAGCTCTGC AGCCAGCCTA TGGCAATTAT ATTTTAAGAG GTGTTCAG GACTTTTGGG
 ACCTACTAAA ACAATGATGG TTATTTTAGA TGTGATGATT TATATTTATG TAGAGATATT TCTGGACCAC TCAAGCTCTT
 CGATACCAA ATCAGGAGCA TCTTGGGATT TATTAAATTA TGTAAGAAGA TAGCACAGAT ATCGGGATAT TATTGTGTGA
 AAATGCTGCT TTTACTTTGA TGTGATCTCA TTGATGTACA CAACCAAGTT CCAATAAAGT GCTAGAATGT G

SEQ ID NO:1969: (Length of Sequence = 266 Nucleotides)

CAATAATAAA AAGGATTATA TTCTGATAC ATGCAATATG GGTAACCGT AAAAATATCA TGCTGAGCAA GAGAAGCCAA
 ACACAAGAGA ACATGTTGTT ATGATTTTAC GTACATGAAA CTTTAGTAAA GACAAGTCTA ATCCATAGTG ACAGAAAGCA
 AATCAGTAAC TGCTGACAGG GGCAATGAG GNGATGATCT CAAGGGNACC TTCTGGGGTA AGACGCTGTT CTGTATCTCG
 ATCGNATTGG TGTCACACA AGTGAA

SEQ ID NO:1970: (Length of Sequence = 317 Nucleotides)

CTCGGGAGGC TGAGGCAGAA GAATGGGTTG AGGCCAGGAG GCGGAGGTTG CAGTGAGCCA AGATTGCGCC ATTGTACTCC
 AGCCTGGGCC ACAAGATTGA AACTTCATCT CGGGGAAAAA AAAAATGAGC TAAATACAAG AGATGGTAAT GCAGGAAATG
 AGAGAGAAAG AAGCTATAGA ATGCACCATC AGTCTTTGCT GAGAGGAGAA GCTAGGACAC TTATGCGCAT GTCCTGTCT
 GCCTTCCTTC CGTCCCCGCG GATGGTTGGA GCAGGTCTTT GTTTGCTGCA GAGCATGCCA TGTCATCCTC CTGTGCT

SEQ ID NO:1971: (Length of Sequence = 263 Nucleotides)

GTGCATACTG CTGAGGCGGC TACGCTGGCA GGGTAAGCAA AAGAAGCACC CCAGCCTAAG TTTACAGAGA ACCAGGACAT
 CATTTTGAAT ATAACCTAGT TCTAATAGTC AAATGGCCAC TCAAGGTGAC AAATAGGAAC TTCAGTGGTC ACCCCTCGGA
 AGCAAGCTTT CAATGTCCCC CACCTGTAGA AGGCTGAAAA ACATCCTCCA AAGATAACAG GTTCCAATCA CTGGAACCTG
 TATTACTTAT TACCATTAAA TAT

SEQ ID NO:1972: (Length of Sequence = 295 Nucleotides)

GACAAAGAAA GCAGAATAAT TTTACCTGAG AAGAAACCAG GAGGCTTCTT CTCTTCTTC TCTCTCTTT TTTTCTTTT
 TTTTGGACTA TACAGAAGAA AACTATCAGA GTTAGGTTAG AGAGTTGGGT TTGGGGTCAG GTGTAGCAT GTGTTATATT
 ATGGGTTAAA TTGTGTCTC CCCAAATTA ATATGTTGAA GTCTTAACTC CCTGTACCTC AGAATGTGAC CNCATGGGGA
 AATAAGGTCA TTGCAATATA ATTAGGTAAA ATAAGGTCAT ACTAGAAGAG GGTAG

SEQ ID NO:1973: (Length of Sequence = 243 Nucleotides)

AGACCGCAGT CATCTCAGC ACTACACGA GGCCATNINC AAGCTGACCG CAATGCTCAT TAGCAGTAAA GATTGTNACC
 CGCAGCTCCT TCATCATCTG TNCCTGGGTC CCTCCGGAT GTTCAATGAG CATGGCATGG AGACGGCCCT GGCCTGCTGG
 GAGTGGCTGC TGGCTGGCAA GGATGGAGTG GAAGTGCCGT TNATGGGGA GATGGCAGGG GCCTGGCACA TGACGGTGGN
 GCA

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SEQ ID NO:1974: (Length of Sequence = 304 Nucleotides)

GGATGAGATG ATCGACGTCA TCGGGGTGAC CAAGGGCAAA GGCTACAAAG GGGTCACCAG TCGTTGGCAC ACCAAGAAGC
TGCCCCGCAA GACCCACCGA GGCCTGCGCA AGGTGGCCTG TATTTGGGCA TGGCATCCTG CTCGTGTAGC CTTCTCTGTG
GCACGCGCTG GGCAGAAAGG CTACCATCAC CGCACTGAGA TCAACAAGAA GATTTATAAG ATTGGCCAGG GCTACCTTAT
CAAGGACGGC AAGCTGATCA AGAACAAATGC CTCCACTGAC TATGACCTAT CTGACAAGAG CATC

SEQ ID NO:1975: (Length of Sequence = 233 Nucleotides)

CCTTCTCCAT CACCCCTTGA CCTCTCTGA GTGGTCTCTC AAGGCACATT TATTTTCTCT GCTGCAACCT ACCAGATCTG
ACATCCACCT CCCCAGCAC CCATGGGCA AGGAGGCCTG GGGCAGCCAA GGGGAGTCC AGGACCAAGC AAGCAAGAAA
CCGTCTCTTG AACACATGGT TAAGCTTCTT CCAGCATGGC CTAATTCC CTACCTGCCT AAGCCAGGG AGT

SEQ ID NO:1976: (Length of Sequence = 162 Nucleotides)

AAGTGTTACA AGCCCCAGAA TGCTGCCCG CCTGCCCTGC TGGGCGGACT GTCTGTGTGT CTGTNCTCTT GCGTTCCAC
CTCCAAGCCT ATACCAGCTG TGTACAGCG CATCTCTCT CCTCTGTGT CCCCCTACTC ACCAAACAG TGTATTATA
GC

SEQ ID NO:1977: (Length of Sequence = 270 Nucleotides)

GGCTGAATTA AGAGCATCCA GAAAGCCAG GCCCTCCATA GGCTGTGGCG GGATGATCTT CACTTTGATC TCTTTGGTGG
CATTAGGTGT TGTGTGAGT GGCTGTGATT TCTTCTCTGC AGGGGGAGTG GCATCTCTG GAGCAGCTAC GTTGCTCTGA
CGTTTGAGGG GGATGGGTTT AAGGTGTGAC TTGTGAGAAA CCACCACTGT GCTGGCATT CTTCTCACAG GCACCAAGGA
TGTGTCTCC AGCTCTAGTC CAGTGAACG

SEQ ID NO:1978: (Length of Sequence = 167 Nucleotides)

TTGCAGGAGT TGCTGATATT TATTCAAACG TCATCCATAC AATAAAGAAC TCNCTTTTA AAATCCATT TACATCAGCA
GTTAAAAAA AGTGACAGTG GATGAAACAT GANGCTGTAA AGTGCCCTTA TGGGAATNC AGCCAGCCT GCCTCCACTG
TGTGGG

SEQ ID NO:1979: (Length of Sequence = 346 Nucleotides)

CATCATAGCA ACAAAGGCT ATGTACTATA CTCAGGAAAA CCATTTATTT GCACTGGAGG CAACTGTTCT TGAGAGAGGA
AAAGTAAATT GTCCAAGATG TAACATCTTA TAAATAGCAA AGCAAGGATG AAAATTATTA TATTINACTA AATCAGTATG
AGAATCTGA TTCTTCATTA TTATATCCCC AACACTCTAT CAGTTTGTG AACAAATCAA CAAATAAGCT TGAATAAAGG
NTCCACATCT CAATTCTCT CCACCATCT ATATTGCCCT TCATCCCTAC ATTAAATGN TTATTCTGCT TTTTTTCTT
TAACAATTA TCCTAAAGT AACTAG

SEQ ID NO:1980: (Length of Sequence = 174 Nucleotides)

CACAACTGA CAGAGGAGAC AGGAGGAATT TAATATTACA TGCTATAATG ATATTTATCT CACAGTTTAT ATTTATTCA
TTTATATTAT TTTTAAAAA GGTTCTTTA TCAGCTACTA AACATCTCAG CAATTGGTG TGCATAGCTC TAGATTAAGC
AACAAAGAT TGTA

SEQ ID NO:1981: (Length of Sequence = 276 Nucleotides)

TGGNCTACTC ATAAGTTTTC AGTGGTTAAT TACTACAGTT TAAGAAGAGC TGTGATTAT TTTTAGATCT GACCCAGCAG
ATCATACCTN TNCNITGAAT TACATGGTCT TCTTTGGCT TCTAAGATGT CACACTCTG TCTTAGTGGC CACTGCTCCT

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CAAGCCCCCT TTGCTAGCTC TTCTCATCT GTCCAGCCCT AACCTGACCG TGCTATGTAA GTCTTCTCCG TTTTCACCCC
CTNCCNGGGT GACCGTTATA CTNCCAAACC TACAGG

SEQ ID NO:1982: (Length of Sequence = 288 Nucleotides)

GCTGCAGAGA GGTGTNTCC AGGAGCAGGC TTTCCCGCTC GGGATCCAGG TCATCCCCCA CCAGAGAAAT TTCACAGCCA
TCCAGGTTGT GCACAATCTC ATCCGACATG CGTGTNTCTG TCACTGTGCC CTGCCAACTC TCATCCTTTT TGGCCTCCAC
CTGGTGAGAA ATGGAGCAGG TGATTGAAG ATCAGGGAAC AAAGGGACGC CGTTGGTTCC CTCAAAGTCC ACAGCTNGGC
GGGCAAAATG AGCAGTGCCA CTCAGCAGGA TCTGGGGGCG GTACAGGCT

SEQ ID NO:1983: (Length of Sequence = 273 Nucleotides)

CACAAGCCAC TTTCAGCTC CAGTGGGAAG GCTCCAGCCA CAGCCCGATA TTTCGTCTG CTTCCTGTC TCTCATATCT
AAAAGTCATG GCTTAAGTTA GGCAATAAAA CCTGTGGCTT TAGGCATCTT TAGTAAAAA GCTGAACAAA TCCCAAATTT
ATTCCCATTT TCTTGAGAAA TAAACTTCAT AAAACAACAG ACAGCTGTCA TGATTACTGA GTTTTGGCTG ATGGCGAAAT
AATTTTATG TAAGTATACT GAATAACAT ACA

SEQ ID NO:1984: (Length of Sequence = 221 Nucleotides)

GAAGAGGCTG CTCTGGCTG GGACACCCC ACTGCTCTCA AGGAGCTGGC ATCTCAGTGG CCTCTNAGCC CAGCCTGAGC
CCTGTGGGAG TNCGGGGCA GTGACTGGAA TGTTCTGCTG GGCAGGCTGC AGCAGCCGAG GTGGCCCCAG GGCAGAGGAG
TGCAGCGCAN CTCATGGGTG CCTATGCCA CCCCTGGTGC TCACTGGGCT GCTGATGCCG T

SEQ ID NO:1985: (Length of Sequence = 197 Nucleotides)

TTGCTACCAT GAGGGAAGTG CTGTTGCTT GGCTACAGC AAGTATACA GCCTGCGAGG CACAGTCCCC AAAAGTCTAG
CTGCAATTCT ATTGGTGGTT TTCCCCAAC AGCAATAACA AGATGTTACC TGAAGCACA CCAGAGCCAA TCATGACTCA
GGCCTGTCTA GATGTTTGA TGCTGGAAA TATATTT

SEQ ID NO:1986: (Length of Sequence = 268 Nucleotides)

CACTTGGACA TTCTCTTTA TTGTTACAT TCCAACCCAG CACAGTCACA TGCACACAG GAGATCAGAA ACCTTTNGGC
CACAGCCCCA GGAGCCCCGC GGGGGGAGG GCGGGACCGA CAGGGGCGG GCGGGGCCGT GGAAGACTCC TCCTACCGAG
CCTCCAGGC GNTGGCGTT TGCATAACA AGAGAGCTGG AGAGGNTGCC CTCAACAGTG CGCTGGGGA AGGGAGGGA
ACGTGACAGG CAGGTNNGG ATAGGGAC

SEQ ID NO:1987: (Length of Sequence = 282 Nucleotides)

GTCTCACTG TAAACAAATG AGGATGGAGG ACACTGAGAG GNTCAAATAT GAAAGGCAGT ATGGGGAGTT AGAGCCACTC
GTCTACTCT GTAAAGAGCA TGACTACTCA CAGTCTTTCT AGCGGTAGT CACTCTTTCA TTTAACAAAT ACTTAGTCCC
TGCAATGATC TAGGATAATA ACTCAACAGT GTATATCAAG AGCCTTTAAA AAGTTATACC TGGCCGGGCG CAGTGGCTCA
TGTATGTAAC CCTAGCACTT TGGGAGGCCA AGGCAGGCAG AT

SEQ ID NO:1988: (Length of Sequence = 226 Nucleotides)

GTGAGGGGT TCGTCTCTC AGGAAGTTAG GCCATAATTT CTGCAGGTT AGTGATTAAC TTGGATCCAT CCCATGCTGT
CTTGAAGTGT TCAGGAATGG GAAATTCTCT ATAATCACCA TCCTGAGGGA TAAGTATGTT CATTTCAGAT GACTTGGCCG
TCACGNTCT ACAGTCTAAT GCATCTTCA TGAGGTATAT GTGGCAACCT TCCTCTTAT TAATGG

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SEQ ID NO:1989: (Length of Sequence = 193 Nucleotides)

CTCCCTGTAG GTCATGTCCT TGAGAGTTAA AAGATGGGTT GAGTAGGCAG AGGTCTCAGG CACCGGGGAC AGAAGACAAG
GACATTGAGC ACGGGCAGCC ATGCTCTTCC CAGCACCCAG AAAAGGCCCA GGGCCCGGAC TCCTGGGTGT GGTGATGAGA
AGGCCTCCG ATTCAGCCTC TTCTCTTCTT GTG

SEQ ID NO:1990: (Length of Sequence = 223 Nucleotides)

CTGCTTCATT TACCACCACC AGCCGATGGA CCAGTTTATT GGATTACCT ATGATACCAG GACTTTTCCA TTCAATTCAA
TTCAACAAAC TTTTAGAGAT CGCCCTTATT CCAAGCTCAT CCAGGTTCTG CTTGATGAAG GCAGGCTTTG GCATATCAGA
CATAAAAAGC TGGAGGAACT TGAGGATTCT TTTGTTGGTA AGTATATAAA GTGCAATCCC ACT

SEQ ID NO:1991: (Length of Sequence = 385 Nucleotides)

GCAGAGAAAG TGCCAGGCAT CAACCCAGT TTCGTGTTCC TGCAGCTCTA CCATTCCCCC TTCTTTGGCG ACGAGTCAAA
CAAGCCAATC CTGCTGCCCA ATGAGTCACA GTCCTTTGAG CGGTGGGTGC AGCTCCTCGA CCAGATCCCA TCATACGACA
CCACAAGAT CGCCGTCTG TATGTTGGAG AAGGCCAGAG CAACAGCGAG CTCGCCATCC TGTCCAATGA GCATGGCTCC
TACAGGTACA CGAGTTTCT GACGGGCTG GCGCGGCTCA TCGAGCTGAA GGACTIONCAG CCGGACAAGG TGTACCTGGG
AGGCCTTGAC GTNIGTINGT AGGACGCCA GTTCAACTAC TNCINGCAG ATGACATCAT GGAAG

SEQ ID NO:1992: (Length of Sequence = 312 Nucleotides)

GGCTTACAGG ACAGAAAGT CCCTTCTCAC AGTTTGGGAG GTCCGAAGTC TGAAGTGAAG CTGTCAGCAG GGCCACACCC
CCTCTGGATG CTCAGGGGA GGGTCTTTG CCTCTTCCAG TTCTGGTGGC TCAGGCATT CCTTGTCTTA TGGTGGCATC
ATTGATCTCT GCTCCGCTT CACGTGGCCT TCTCTGTGTT GTCAAATCTC CTCTCTGTG CTCTGTGAAA AACACTCGTC
ATTGGGATTT AGGNNCCACC CCAATCTAGA TGGTCTCATC TTGAGCCTTT ACTTTAGTTA CCTCTGCAAA GA

SEQ ID NO:1993: (Length of Sequence = 429 Nucleotides)

CTGTTTTTAC TCGACGAGGA GAAGACCTTT TCATGTGTAT GGACATACAG CTCGTTGAAG CACTGTGTGG CTTCAGAAG
CCAATATCTA CTCTTGACAA CGAACCATC GTCATCACCT CTCATCCAGG TCAGATTGTC AAGCATGGAG ATATCAAGTG
TGTAATAAAT GAAGGCATGC CAATTTATCG TAGACCATAT GAAAAGGGTC GCCTAATCAT CGAATTTAAG GTAAACTTTC
CTGAGAATGG CTCTCTCTCT CCTGATAAAC TGTCTTINCT GGAATAACTC CTACCCGAGA GGAAGGAAGG GAAGAGACTN
ATGAGATGGA CCAAGTAGAA CTGGTGGGAC TTTNGATCCC AATCAGGAAA GACGGCGNCA CTNCAATGGG GGAAGCATAT
GAGGGATGAT GGACCATCAT CCCAGAGT

SEQ ID NO:1994: (Length of Sequence = 377 Nucleotides)

TGGGGTGGC AAACCAAGTG CCCTGTCTT GTGTCAGCCA GCTGTGGCAA TTTCACCCCT ATTCTCTGGA GAGGCCAGCT
GCCTGCTGGA AGGAGTCAGA AGTCGGTGA TGTGATGAG GCCTTGGAGG CCCAGTINIG GCGGGAGAGA AATCCACACC
TGTGCTGGA GTTCTCTTTC CTGACCCTC TGAACCGCG CTTAATAATGC TGTCCCGCCT GGAACAGGGA GGCCACATCC
AGCAGTGGT CCTCAATGTC CTGCCCCAGC CTGTGGGAAT CCGTTTTTGT GCTTGATTTT TTGCTGGAGA TGTGGAAGGT
GATCATGCCA TCCCCATGA AGATATAAGA AACANCATAA CCATGGTCAT CAGCAGG

SEQ ID NO:1995: (Length of Sequence = 341 Nucleotides)

GGACCTATAT GGCCATGCTC TGGCTCTACC CTGCGGAAGC CTGATCCCGG TGTGTGGCCC AGCTTGTTC GGCCTG3GA
TGCTGCATCT CCAGGCAACT ATGCATTTTC CCGGGGAGAG AACAGTATG AGAAGTGGG GCAGGGCACA CATTCATCTT
TGTACCTGCC TCTTTGGTTT GGACCTGGC AGTCGGGTCA CTGCTCCAC GTCTGAGGCC CCGCCAGCTG GCCGCTGTGTC

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CTGGCCAGCC TCAGGCTGCT GCGCTCTCTC GGCTTTTACG GACCTCTGAG GCCGAAACCC CACCTCGAAG TTTCCTCCGTG
ACAGTGCGTC CGAGTCCACA T

SEQ ID NO:1996: (Length of Sequence = 316 Nucleotides)

GCATATGGTT GGTGAACAGT TTTCGAGCCC TAGGCTCCTG TACTGTGCGT GCACCGCCGC CCGGGCAGCC GCTGGCTCCA
GCTCAGAAA CAGCCCCGGG CGCCCGCCG CTCTGAGTCC AGCCTCCTAC TGAGAACAGT CCTTCCCTTG TGCGGGTCGC
ACGGCTAGCC GCAGGTTCCG CCACGTCAA TCCATTTTNT AAAAAAGCAG GGAGCAGAGC TCTCTCTTCG CCGCCGACGC
AGAAAGGAGC TNGGGAGGAA AAAGCTGCTG CCITTTGCGC TGGAGATTTC TGGCAAGGC TTCTCATTTT CCCAGG

SEQ ID NO:1997: (Length of Sequence = 320 Nucleotides)

GCAGGTTTAT GTTTTATTT ATGTATTTTA ACTGACTTAT TTGTGTATCC CACTAGAACA ATACATTAC AATATACTTG
CAGAACTGTG CTGNGCAT CATGGGAGCA GAGAACTGT CCAGTGAATA GTTGTGAAG AAAGNGTAA AATCTCCCC
AAACCCTAAA GGCATCCTTT TCGTAGTGTG TGTCCTATAG GTATGGCTGC TGAGCACCAG GGCTGCTCAC CATGCTCCCA
AGAAGCAGAG TCAGGGAGGC AGACAGCAGG GTTTATTAAG GTGCACANCC ATGTCTGAGC CCCAGCTCTC TCCGNTCTCT

SEQ ID NO:1998: (Length of Sequence = 395 Nucleotides)

TTTGATGCTA TGGCGCTGGA CCCAGGGCCC TCCAGGCCA TCTCTGTCC TCTGGGTGG TCCAGTTCTA GAGTGGGAGA
AAGGGAGTCA GGCGCATTTG GAATCGTGGT TCCAGTCTGG TTGCAGAATC TGCACATTTC CCAAGAAATT TTCCCTGTTT
GGAAAGTTTG CCCCAGCTTT CCGGGGCACA CCACCTTTTG TCCCAAGTGT CTGCGGTTCG ACCAATCTGC CTGCCACACA
TTGACCAAGC CAGACCCGGT TCACCCAGCT CGAGGATCCC AGGTTGAAGA GTGGCCCCIT GAGGCCCTGG AAAGACCAAT
CACTGGACTT CTCCCTTGA GAGTCAGAG TCANCCGTGA TTCTGCCTGC AACTTATCAT TGATCTGCAG TGATT

SEQ ID NO:1999: (Length of Sequence = 337 Nucleotides)

GAAAGTATTT GTGTGATTGA GTCACAGCT GAATCAATCT TCATATAATG CCATTTTTGC TTAAAAGAAT GCCAGACTTG
GGCATTAGGC TGACATTTT TIGAAAACAG TGAGGCTTTG CTTAGGGAA AATAGTGGTA GTATTTATGG TCGATGATAA
AGTTCTTAGA TTITAAGCAA AAATTTTAGA AAGCTTGAT CAGCTGCTGT AAGTATATAA TGAAATCTGT CATTATTTGA
TTATCTGCAT AACTGAGTCA GTATTTCCAA ATGATCAATG CATAGTATTA TAAAATCAT ACATGGGTAA GAAATCTTTA
CAAAGTGTC GCTAGAC

SEQ ID NO:2000: (Length of Sequence = 329 Nucleotides)

ATGTAGCCCC CTGCTGCAAA GGTGCCATCT TTTTNTGCT GCTCACACAG CAGCGTCTC AGGGCCTGCC TGCATGGCAG
NNTCATCATG GGAAGCCCA CAGCCACTGA CATCATGAAG CCCACACGGA GCATCTCGT CACCAGGTTG GAGGGAAAGT
GCATGAGCAC GTTTCGCGC CGTGGCTCG GTGAAGCTGA CGTAGCCGAA AAACCCACC ATGACGTAGG AAGGTGGTGA
CCACATTAAG GGAGGAAGCA AATATGGAGC TCATGGTTT CACTTGACGG GCTCATCCAG GCTGTCTAG GTGGGCAGCA
CCTGGGACT

SEQ ID NO:2001: (Length of Sequence = 308 Nucleotides)

AAGTCTGGGG TTGGTAGGC TCCAGGATT TCCCTCAGCA GGCAATTGTG CTGCCGAGG GCCGTCTGGG TGCCCCGAG
GTCTCTCTG ATGCTCTGTA GCTGCGGTG GAACGACTCC CTCACTGACT GTGTGGCAA GCTGAGCTCT GCCCTGACCC
ATGTGGCAIT GGCCAGGATG GGGGCCANGC CCTGTGGGAT GCTTGTCTG CCGTNTCTG AGGCACCGAC TGCTCTCTCT
CCCAGTGTCC CCAAGTGCTT CCTCAGAGAC TCAACCTGNN TCCAGAATC ACCATCCACT AGGACCTT

SEQ ID NO:2002: (Length of Sequence = 242 Nucleotides)

AGCCAGGCCC TGGGCCCAAG CCCCTGTGCC CTCTCCACT GCCCTCTTT CCAGACAGTA AAGGCCATGG TCAGTGTGTT
TTTCTCTGT AAACAAACCC CAGCTTGTT AACAGAAATG CTAATAACCT ACTGGGAAAG ATGGAGGTCT AAATTACCTC
CAGGGTTTT CTGGGGTAT ATCACCAGTG TGGGTCCCTT CTGATACCAC CAGGTTCCT CCAGGCAGAG TGGGGCGGAA
GG

SEQ ID NO:2003: (Length of Sequence = 328 Nucleotides)

ATATTCTCAC TTATAAGTGG GAGCTAAATN ATGGGAACAC ATGGACGCAT AGAAGGGNAC ACTTTTACAC TNCTGGTGGG
NGTGTAACT AATACAACCA CTGTGAAAA CAGTGTGGCG NTTCGTTAAA GAACTAAAAG TAGATCTCCC GNTTGATCCA
GCAATCCAC TACTGGGTAT CTACCCNAA GAAAATAAGT CATTATACAA AAAAGATACT TGCACACAG TTTATAGCAG
CACAATTTGC AATTGCAAAA AATATGGGCG CAACCCAAAT GCCCATCAAT CAATGAGTGG ATAAAGGAAA TGTGAGATAT
ATATATAT

SEQ ID NO:2004: (Length of Sequence = 211 Nucleotides)

AGCCTTTTTA TTATGINTT TTTTTTTTT TAANCGAAGG TCCCTTACTG GTCCTGCTTC CATGAGTAGC CGTGACCAGG
GGAAAAGGGA GAGGAACAG CCGGCACAGG GAGGGTTCAT CTCACAACA TTCCATTAT ACACAGAACT AAACAGACAA
GCACAGNGTC ACTATGCGG TTAGAAGTTG GCAGCATGGG AAGGGGAGG A

SEQ ID NO:2005: (Length of Sequence = 241 Nucleotides)

CCGGGACACC GTGGGAAGG GGTGCAGGT GGGTGATGGC CAGAGGAATG ATGGGCTTTT NITCTGAGGG GTGTCCGAGA
GGCTGGTGTG TGCACGTCT ACAGACCCCA TGTGGATCT TTCTCCCTTT CTCCTCTCCT TTTTCTCTTC ACATCTCCCC
CATAGCACC TGCCCTCATG GGACCTGCC TCCCTCAGCC GTCAGCCATC AGCCATGGCC CTCCTAGTGC CTCCTAGCCC
C

SEQ ID NO:2006: (Length of Sequence = 266 Nucleotides)

TTCCCCCTAA CCTGTGAGT GGGCTTTTA AGTAGTAAGT AGTATACACC TAGATATGGA TAGATAGCTA GGTGACCAAA
CCTAATGGAT TAAGGCCATC CTCGCTAGG TCACTTACTA AAGATCAGGT CATATGTCAT ATCGTTCTTG TGCTTTTAG
AACGTATTTG GGAATGGGTT CCAGATTTTT TTAAACACA TATTAAAGAT TATTTATATT ATGCTTTGTT TCCGAAAGGT
TTTAAGGTGG ATTAATAAT AAGATT

SEQ ID NO:2007: (Length of Sequence = 419 Nucleotides)

AGAAAGAGGC TTCCTCTGC GGAGGCAGGT GGAGCACAGG GAGGGCTCCT GGGAGGCACA GGAGTGGGGT GGGGGCCAGG
AAGGGGAGG TGGACAGAGC GACTTGATA AGGCTGGGCC GGGCCACGC CCACCTCAAG AGGGGGCCG CCTCCTCAGG
AGGNATCAAG GTGCAATCCA GTCTTCCTTT CTCTCCCTGA AGACCTGAGT TCCAGCCTTC ACAGAGCGTC ATGCGCATTC
TTCTTTCTGG ATGCTAACCC CAAATCCGAC ACTCAATGGT GCACCTCAGG TACCTGCCAA GNTCTNIGG GCCACATGG
AAGGTGCAGG GTCTGGGTCC CTGGATGACG AGGTGAGGGG CAGATGGGTG ACCAGGGAAG GGCATGACCC AGAGCTNCCG
GGACTCATGG AGGATTNGG

SEQ ID NO:2008: (Length of Sequence = 360 Nucleotides)

CTTTTCGGA GAAATAATA CGCTGTTCC TCTAATTAGC CCATCGGTT CAGGTTCATC ACTCTGCTAT CTCTCCTGG
AGTTTACACA AGCCCTTCAG AGTGTAACA CGATGTGGA TTCAATCCA CTCATTATTT TTTTCAATAA AAAGAGAACT
GTTTCAACAG ACAGGTGTTG TTTCCGACAT CATCAGAGAG GAAGGTGGAT GGTCTATAC GGTAAAGCATT CTACCCCTCA

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GCTGCCAGGG ACAGATCCAT AAAANTCCAA AAAGGGAAGA GAGAAACAGC TTGAGTACAG CTGAATCATT CACAACAATA
TTACAAGCAA TTACTTCAAT GGTAAAGTCT CCACTCTAGA

SEQ ID NO:2009: (Length of Sequence = 411 Nucleotides)

ATTACGGGCA CCTGCCACCA CGCCTGGCTA GTTTTGTAT TTTTAGTAGA GACGATGTTT CACCATGTTG ACCAGGCTGG
TCTCGAACTC TTGACCTCAA GTGATCCACT CGCTTCGGCC TOCCAAAGTG CTGGGATTAT AGGOGTGAGC ACCGTGCCC
AGCCTCACAG CTGCATCTTA ACCTTACCTT TGCTCTGCC TCTCAAGCTG GTACCTCCTA ATTTACATCC TAAGAGTGGA
ACCATGTGAC AAGGACTGGA GTGCCATTGG CTGTGGACTG TTCAGGCAGG GAAGTACAAG ACCACTCTTG TATTCAGGGG
CAACCAAGG AGAGAATTAC GTACTTGTG AGTACAACT GCACCAAGCC CTGGAGACCC ATTACCACCG TTAACCTCA
ATACAGCTCT G

SEQ ID NO:2010: (Length of Sequence = 311 Nucleotides)

AAGAAAGATG CCAGCTCTTT ATTACCAGGG AAGCTGTGTG CACGCGGTG GAGGGTNCCT NTGGAGCTGA CCGGGCCCTT
ACCTTCTCCT GCTTGTGAGA GGTGAGTCTT GGTACCCAGC ACGGTGGCCT CCGGGAGGCT TTGATAGGTC AGCCTTTGCT
GCTCCACG TCAGGGCTCC TCCAAGGAAC CTGCGGGGCC CCATGTGCCC ACAGCCCGAG GAGGGAAGCA CCGACCGCCC
TCTCTGTGC CAGTTGACAC ATCATCCATT TATTATCCTT CAGAGTCTAA AACTTCTCG TGATACAACG T

SEQ ID NO:2011: (Length of Sequence = 192 Nucleotides)

TCAGGACATT TCAGTGAGGC CACCTACAAG CAGAAAGGAG GCCCAGGGCT AGGGACAGAN TGGCCCCAGA GCCAGTCAGC
TGCAGCAATT CTTGTGAGAA AGGGAGGGCA AGCTGCCAGA GCANTGTNGC CCAATATGAT GCCTACACGA GACAGATGTC
CCAGTAGAG TGTGTTCACT GACCTTCTAA AC

SEQ ID NO:2012: (Length of Sequence = 367 Nucleotides)

GGATGACCTT CGAGGACGTG TGCCGGTACT TCACGGACAT CATCAAGTGC CGCGTGATCA ACACATCCCA CCTGAGCATC
CACAAGACGT GGGAGGAGGC CCGGCTGCAT GGCGCTGGA CGCTGCATGA GGACCCGCGA CAGAACCGCG GTGGCGGCTG
CATCAACCAC AAGGACACCT TCTTCCAGAA CCCACAGTAC ATCTTCGAAG TCAAGAAGCC AGAAGATGAA GTCTGATCT
GCATCCAGCA GCGGCCAAG CGGTCTACGC GCCGGGAGGG CAAGGGTGAG AACCTGNC A TTGGCTTTGA CATCTACAAG
GTGGAGGAGA ACCGCCAGTA CCGCATGCAC AGCCTTCAGC ACAAGGC

SEQ ID NO:2013: (Length of Sequence = 213 Nucleotides)

GATTTTATGG AAAAAAATTT CCATTTTNT TAAGAAATAA GGAGTTTNTG TGTCGAGGGC ATGACTACGA GAGGCTGGAA
GCTTCCAACA GAGAATGCTG AACGANTCC CCCATGCCAT CGCCATGCAG CACGCAACC AGCCCGATGA GACCATCTTC
CAGGCAGAAG CTCAGTATTT GCAGATATAT GCTGTGACTC CCATTCCAGA GAG

SEQ ID NO:2014: (Length of Sequence = 333 Nucleotides)

GTAAATAAAA ACAGCAAATT CTAAATACA TTATGAGTAA AGAAAGATTA AAATAAGGNA ACAGTACTTA CTGTGCAACT
TTAAATTATA CCAAGTAAAG TACACCACCT ATTCAGTGAT AACATTTTCC CTACGTTGAA AACACAAAAC CTACTTATCG
ATATTTTGA TATTAAAAA AAGGACATTC ACTATGTAG CCTTGACAAC TCTTCCAGTA TTTTAAACCA TTCAGATGTA
TTATGTGGN ATATTTATTA ACATAATTIN GTTAAACACA TTTCTTCTA CACAACTGA ATTTTAAAG TGCTATAAC
ATTTTCAATT ACA

SEQ ID NO:2015: (Length of Sequence = 179 Nucleotides)

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NCACCACTTA TTGTCTTCAA ACATTATTGC ACTTTAACTT TCTTAATTG ACAAAGCATT CAAGAAACAT CTGCAGACTA
GTTTAAACAG ACAAATAACA CCTGTAAGCA GACATGACTG TCCTAAATTG TTTATTAAGA AAGTTAAAGN GCAATAATGT
TTGAAGACAA TAAGTGGTG

SEQ ID NO:2016: (Length of Sequence = 293 Nucleotides)

TTTTCCTCC CCAGAGATGC TTTATTACAT GGTTCATCA GTCATCAATG ATGGGTCCCT ATGCCCATGC GAGGAGACAG
GAACATCTGT GTGGTACATG GCACTGTTCC CCTCTCAGCT ACGCAGTCAG ATGGGGGCAG GGGGATGAAT GGGTGTCTGG
CTTCCCTGCT GTTGGGCAGG CTCTGAGATC TCAGCAGACA GAAATGAAAG CCTGGCAAAT AGGGAGGCAG GAATGTTCAA
GCATCGGTGA CCTCCATGTT CTGCAGCCTG TTTTCTAGGG TGACGTCTCT TTG

SEQ ID NO:2017: (Length of Sequence = 504 Nucleotides)

CGGTGTCTGG CCGCGCTGTG GCGCGCTGC TMTGCGNCCC CAGNCTCCTC GTCCGCTGG ATATCTGTTC CAAAAACCCC
TGCCACAACG GTGGTTTATG CGAGGAGATT TCCCAAGAAG TGCGAGGAGA TGCTTTCCCC TCGTACACCT GCACGTGCCT
TAAGGGCTAC GCGGGCAACC ACTGTGAGAC GAAATGTGTC GAGCCACTGG GCATGGAGAA TGGGAACATT GCCAACTCAC
AGATCGCCGC CTCATCTGTG CGTGTGACCT TCTTNGGNTT GCAGCATTGG GTCCCGGAGC TGGCCCGCCT GAACCGCGCA
GGCATGGTCA ATGCTGGACA ACCAGCATCA ATGACGATAA CCCCTGGTTC CAGGTGAAAT TNCINCGGAG GGATNTGGGT
AACANNINTT GTTACGAAGG GTGCCANCOG TTTGGCCAGT ATTGGTACCT AAAGGCTTTA AAGGTGGCCT ANAGCTTAAAT
TGGNAGGAIN CENITINTCC ATGT

SEQ ID NO:2018: (Length of Sequence = 354 Nucleotides)

AGANCAGACC CACAGGCATG CAGAAAGGTA GGGCAGTATG TTTAANTCCA GACTTGGCAC ATGGCTAGGG ATACTGCTCA
CTAGCTGTGG AGGTCTCAG GAGTGGAGAG AATGAGTAGG AGGGCAGAAG CTTCCATTTT TTTCTTCTCT AAGACCCCTG
TATTGTINTT ATTTCCIGCC TTTCCGAGTC CTGCAGTGGG CTGCCCTGTA CCTTGAACCT CATGAGCCTC TAAGGGAAAG
GAGGAACAAT TAGGACGTGG CAATGAGACC TGGCAGGGCA GAGTACAAGC CCAGCACCCA GTGTCCACGN CTTACTGGGT
CCTTANCCTG GGCCAAACAG GGAGGGCTGA TACC

SEQ ID NO:2019: (Length of Sequence = 295 Nucleotides)

GACACAACCT TTTGAACTAT TGCTGTGTGT TTCATTTTAA AAAGGAACCT TTAATACTAA AATTATAGGA AGAACATAAT
ATCTGACGTC ACGTAAATTC AGATTGAAG GAAATTTACT TTTTINCCTT ATTTGINCTT ATTTTTCCTC ATTTTGTAA
GAACAGCGA ACACTTTGAA GAAAGCCAAA AGTTTACATC TGGAGCTGGA GGGTTCGTG ACTGCACACC AGGCACTCTG
CCAGCCCTAC TTTGCTGTGT AGTCTGCAG GTCACITGCC AGAGGTGGTA CTTTC

SEQ ID NO:2020: (Length of Sequence = 217 Nucleotides)

ATTGGAACCT AAGTTTCACA AGGAAAGTGG TCACTTTAGT TCACCACCTT CCTGTGAAA CTTAAGTTCC AATGGGAGAA
TGACAGTAAA CAGACAATA TTATAATANG TCCATGGAAG ATTTTGGTGT ATGINAGATT TNCAAATCTG TAGAGAAACN
TNGGCTCATT CAATAAAAAT TTTGAAACCA TTGATTAAATG TCCTAATAAC TATATGT

SEQ ID NO:2021: (Length of Sequence = 380 Nucleotides)

TTTTTCTTA AAACAACAGC AACGTGATCT TGGCTGTCTG TCATGTGTG AAGTCCATGG TTGGTCTTG TGAAGTCTGA
GGTTTAAACAG TTGTGTGTCC TGGNGGGATT TTCTTACAGC GAAGACTTGA GTTCCTCCAA GTCCAGAAC CCCAAGAATG
GGCAAGAAGG ATCAGGTGAG CCACTCCCTG GAGACACAGC CTTCTGGCTG GGGACTGACT TGGCCATGTT CTCAGCTGAG

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CCACGCGGCT NGTAGTGCAG CCTTCTGTGA CCCCGCTNIG GTAAGTCCAG CCTTCCAGG GCTGCTGAGG GCTGCCTCTT
GACAGTGCAG TCTTATCGAG ACCCAACGGC TCAATCTGCT CATCCNTAAA GTGGGGGATA

SEQ ID NO:2022: (Length of Sequence = 223 Nucleotides)

GGTCACACAG CTAGTTGGTA GAGGAGCTCT TCCATAAGAT AGCAAGGCCA CATCACCTGC AGGGCAGTGC CTGCNCTGGG
AGGTGGCACA ATGTGCCAAG TGATGACGAT GACAATAACT ATGAAAGGAT TTTATATTTG CACAGCATTT GGTGCTCTGA
TCTTCGATGA GGAAGAGCTC CTGCCGATGT CTGCTGAATT GTGCAGTAAA ATATTCAGGA TGG

SEQ ID NO:2023: (Length of Sequence = 294 Nucleotides)

TATTCCTTAAG TTTGCATTTT ACAAACCAC AAGGGAGAAG TCCTTGAAGG GGAGACAGGG GTAGGGGATT AGGGAGTGGG
GGATGGTAAA GAGGGGAAGA GGAAGACCCA GAAACGAAGT CCCCTCCAAC CCCATCTCGG GGACCAAGCA GAGACTAGGC
CTCAGGCTAG CCCAGCAGG TCCCTGTGTC CTGGTTGTAC AGAGCTAGGC CAAAAGACCT CAGGGGAAGG GCCATGGCCC
TCTAGAGACT GCGCCATTT GAGGGACAGC CACAGGCCAA TGTTTCTGT GCCC

SEQ ID NO:2024: (Length of Sequence = 234 Nucleotides)

ATTTGTGCG GGTGCAAAC GTCTTCTGCT CTGAGCTGG GAGCTTCACC AGGCTTCGGT GTAGCGGACG TCCACTTCCT
TCAAATTGGG AAGCTTGGCC TTCAGATCTT CGTAGGTGTC AGCTGAGAGC TTNGTGCTGT TCATGTTTAA ACTGCAGAGA
CTCTTCATGG AGCTCAGGGC CAGCAGGCCA GCGTCTGTAA CCGGGGTCTC GCACAGGTTT AGCACCTGGA GCAT

SEQ ID NO:2025: (Length of Sequence = 327 Nucleotides)

AGGAACAAAT GTTAAAGGT AAGATAATTT CCTGCAAAA GGACACAGAA GGCAGTCTTA AGAAGATGAA TGGATGAGAG
AAGGGAGAGA ATAAATGCA ATAACGAGCC AGCATTIACCT ATGTATTNN TCCTCACCTG TCTCTCCATA TTTAGGTCAC
TTACCAGTTT CTGTGCCCTT TTGGAGCTTT TMTGAGGGC TTCATTCTCA CCTGTATTT CTTAGCCCT AAATTGACAC
TCTCTCAAA AATCCATTC ATTGTCTGTG GACCNAGATG TTCTATGTAA TTCAGAAGCA GAACCTCTGG CTAAAGGGCT
AGTGTGG

SEQ ID NO:2026: (Length of Sequence = 328 Nucleotides)

TCAGTATAAA TTTAAAAGAA ACAGCTTAAT GAAATACAAG TCAGTTTATT TGATATTCAG CCTACAGCTT TCCAAAGCAG
CAGTGAACA TGTTGTTGAG TTTATACCAT TCAITCATTC ATTTATTTTT NCTTCTTTC TTTAGAAAA TACTGGGTGT
TTGATATTTG TTTCACTGTG CTAGTTTCTG GGAATGTGTA AGGAAGAGGC TGGCTGTGTG GATGAGAGCA ACTTGCTTTT
TACAATAATT ATTTGTTATT GTAAATTAAC AATTGCTCT TCTGGTATTA TATGGAAGTA TTTGATCCNG TTGATGGCAC
TGCCTTG

SEQ ID NO:2027: (Length of Sequence = 307 Nucleotides)

AAGAAAGATG CCAGCTCTTT ATTACCAGGG AAGCTGTGTG CACGCGCTG GAGGGTNCN TTGGAGCTGA CCGGGCCCTT
ACCTTCTCCT GCTTGTGAGA GGAGAGTCT GGTACCCAGC ACGGTGGCT CCGGGAGGCT TTGATAGGTC AGCCTTTGCT
GCCTCCAGC TCAGGGCTCC TCCAAGGAAC CTGCGGGGCC CCATGTGCC ACAGCCGAG GAGGGAAGCA CCGACCGNCC
TCCTCGTGGC CAGTTGACAC ATCATCCATT TATTATCCTT CAGAGTCTAA AACTTCTCTC GTGATAC

SEQ ID NO:2028: (Length of Sequence = 272 Nucleotides)

ATCCATTCTT GCATTAACTT AGAGTTAAAA AGGAATATTG TTTATTGTTT GGCTCTCCCC ACTAGAAGTT TCACAGGNGC
ACAGATCATA TCTACCATTT GAACAGCTCT CTGCCGTATG GCTAATACAT TTNTGGCAT ATAGTAGGTA GGTGCTCAAT

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AAATTNTITA CAGGAATAAA TGAGATAGGA TTTTCAAGGG TATTTNCTAT TAGGATTTAA TAAAACAAAG TGATCTTTTAT
AGAAACAAAT CTCCCCATCA ACATGCTATA CT

SEQ ID NO:2029: (Length of Sequence = 261 Nucleotides)

ATTTCITACTA AAANTACAAA AAATTAGCCA GCGTGGTGG TTGTGCACCT ATAATCCCAA CTACTCGGGA GGCTGAAGCA
GGACAATTGC TTGAACCCAG GAGGTGGAGG CTGCAGTGGG CTGAGATGCG ACCATTGCAC TCCACCTTGG GCAACAAGAG
GGAAACTCCG TCTCAAAAAA ACAAACAAA ACAAACAAA AACAAAAGTC AAGTGCTTAC ATTTTGCCAG AAGCCACAAA
TGAAGACTGT GCCTTATAGG C

SEQ ID NO:2030: (Length of Sequence = 384 Nucleotides)

NNCCNNGGAC CAACAGCAGC CAGAGCAGTT AGCCAGTTAG TCCCAGGCC TGTTGGCACAG GCGTTTCTGA CCTGCTGGGC
CGAGAATGGG TAAGTTGTCT GGAGTCAGGT GGGCCCACT AGGACAGGGT CACAAAGCCT GGGTTTGTIT CTGGTACTT
TGCGCCTCTG GGGTGCTAGA GGTGGGGCAT GGTGGCTGGA AGTAAACTG CCAACTCTGG CCCTCAGAAC TCTCAGGTAT
AGAAGCCCAA GATGTCTAAT ACCCTNTCCC AGTGGCCGAG AGCTGCCCTG TGTCAGGTAG AGAGGACACT GTACCTGGGT
GAATGATCAG ACCCTGGTAG CTAAGAAGGN ACTTGTCCCT TTAGTCAGTT TGCAGANCCC CTTT

SEQ ID NO:2031: (Length of Sequence = 261 Nucleotides)

ATCAGAGAGG AGAAGCCACT GTTGCCAGGA CAGACGCTG AGGCGGCCAA GGAGGCTGAG TTAGCTGCCC GANTCCTCCT
GGACCAGGGA CAGACTCACT CTGTGGAGAC ACCATACGGC TCNTTCACIT TCACTGTCTA TGGCACCCCC AAACCCAAAC
GCCAGCGAT CTTACCTAC CAGGATGTGG GACTCAACTA TAAATCTTGC TTCCAGCCAC TGTTTCAGTT CGAGGACATG
CAGGAATCA TTCAGAACTT T

SEQ ID NO:2032: (Length of Sequence = 344 Nucleotides)

CCCCTGCAG GCGTCTGTT CTTOGGGGAA AACGCTCACC CACCCCTGGT AAAGGGCCTG CAGATCGAGC ATCCCGGGCC
CCACCTCGAC CAGCAGCAC CACAAGCCAG GTCACCCAG CAGAGGAAAA GGATGGACAC AGCCCCATGT CCAAAGGCCT
AGTCAATGGA CTCAAGGCAG GACCAATGGC CTTGAGTTCC AAGGGCAGCT CTGGTGCCCC TGTATATGTG GNTCTCGCCT
ACATCCCGAA TCATTGCAGT GGCAAGACTG CTGACCTTGA CTTCTTCCGT CGAGTGCGTG CATCTACTA TGTTGGTCAGT
GGGAATGACC CTGCCAATGG CGAG

SEQ ID NO:2033: (Length of Sequence = 373 Nucleotides)

GGAAGAAAGA AAGAAAGAAA GAAAGAAAGA AAGAAAATGG CCCCATAGTG CTTAAGTCCT CAGACATGTG TCCTGGTGCT
GGGGACAGGG CTCTGACAT TCTCTCAGGT CAGTATTTGC AGGTCATCCA CCTTCGACTT CAACACATGT GACCAGAAAC
CTTCCCAAGG CAGCCATCCA CTTTGTGTG CCTCCGACGG CCATGGCTGA CCCTGCTGC TGCTGTGTAT CCTCGGTGAC
ATCTGGCCTT GGCAGCCTAT GGATTTNIGC CATTCTCCTG GCATGAAATC ACTCCTTCTT GTTGTMTTAA TTTGCATTTT
TTCAGTTACC AGCGCAGTGT AGCATCTTTT CATACTTTA CTGACCAITT CTA

SEQ ID NO:2034: (Length of Sequence = 289 Nucleotides)

CCACCAAAGA ACATCACGCT GTCTTATGTC AAATGCTCGA CAATACCTCT CAGTAGGACG TTGTTGCAAG GCTAGCTAAT
TTTAAATCTG GTATGAGTAA TACAGTCAA CCTAGTATGT ATGCGAGAAA GTCGTTGCTA ACGCATGGTG AGAGGATGTG
ACGTCACAGC ATGAGCAGTC CCTGGTTGTC CCATTGTGAG ATAAACGTAG TNNAGTAGNT CCAAGTTTCT ATTCCAGGTC
TCTGAACCCC AAAGCCAGGC CTTTCACTTT TGCTGGGTGG CCTGGAAGC

434

SEQ ID NO:2035: (Length of Sequence = 290 Nucleotides)

CTTTTCCCTTC ATCTGAACAC AGAAGGAGCC ACGGTCTGGA AAGTNTGCCT GTCCCTTCCCG GGAGTGGGGA GGCCGGTGTG
AGTTTGTGATC TTCCAGCTCA GGCAGACACC TTACACAGTG CAAACAAGAG CCGTGTCAAG ATGAGAGGGA AGCGTAGACC
GCAGACCCGT GCAGCTAGGC GGCTGGCTGC TCAGGAGTCC AGCGAGGCTG AGGACATGAG CGTCCCCAGA GGACCCATT
GCACANTGGG CTGATGGCGC CATTTCCTCCA AATNGCCATC GGCACCAGCT

SEQ ID NO:2036: (Length of Sequence = 241 Nucleotides)

TTATTTTATA TAAAAAGTGT TTCTGTGATT CTCAGAGGCC CAGGAGTCAG TNCCTGGTGGT TGGAGGGACC TGCCCCCACT
GGTTCATTTA ACCCTCTGTC TCGGTGCCCT NAGAACCTCA GCCAGAAAGG CAAGGAGGAA ATCAGAGCAN GAGCCTCATA
CTCTTGGTGA TCTATTCACT CTNIGACCTC AGGGGTGACA TATAAGGTCA GTGTTTCTCG TCCCCGNCGG ATCTGCACTG
C

SEQ ID NO:2037: (Length of Sequence = 270 Nucleotides)

CTATTATTTT GCATTTTGG TAGAAGGGGT GGTCTCACA TGTCGCCAG GCCGGTCTCG AACTCCTGAG CTCAAGCGGT
CCACCTGCCT CAGCCTCCCA AAGTGTGCG ATTACAGGCT TGAGCCACTG CACCCTGCC AACCTTGACT ACTTCTAATA
GGGATGAGTC GAGTAGCAGT TNGGGGCGTC CTGTGCGGCT GGGTCTGCT GAGGCTCCCC TCGGCCCGT CCATGGCTTG
TTGTGCATCT GGCCCTGAGT GCCTTGCCCT

SEQ ID NO:2038: (Length of Sequence = 151 Nucleotides)

ATTTTAAAT GAGCATTAA GGAATGCAGC ATTTAAATCA GAACTCTGCC AATGCTTTTN TCTAGAGGCG TGTGCCATT
TTTTTITAT ATGAAATNC TGTCCCAAGA AAGCAGGAT TACATCTTT TTTTTTTTT TAGCAGTTTG G

SEQ ID NO:2039: (Length of Sequence = 166 Nucleotides)

TTTGTCTGTT ACAACCTCCG TATGACCCA CGCCACCCG TGTTCACTG CCGTCGGCT CCTGCACAGN CCACAGCTG
CGCCCGAAG GCCCTGCTG TGGAGAAGCC GGACCCATCC CCGAGGTCCC CAGCGAGGAC ACANACTCCA CGAGAGCAGC
CCCTCC

SEQ ID NO:2040: (Length of Sequence = 362 Nucleotides)

GAAGTACGGT TAAATTAGA TTTGACCATA TGAAGATCT TTTACCAGTT GGTCTCCAAG AATGTCTTCC TTATTATGTT
ATTGTCACT TTTGAGCGTG TGTGTGGTG GGGTGGTTTC TGCTTATAT TCCTTAACTA CATGTATAT TTTGTAAAG
AATTGGGAAT TCATTTTAAT GCTTTTAAAC ATCTCACTG GGAACGGAA TAAAGTTATT CTTGACTCTG TACCTGAGC
CATTGTCAA GTGAGGGGT ACATTTTAGG TATCTAAAA TTTACTTTTA ACTTTCACAT TCCCTGGGT AGGAAGCTGC
TGTTCAAGAG AAATTTTCN GGTCTTCTG GCAATTGGCT TA

SEQ ID NO:2041: (Length of Sequence = 360 Nucleotides)

CCTAATTGTA AGTATGAAG TCGAGGAGGT GGTGATAAT GGGCCAAGTG AGGATGCAAT GCACCAGGTG TATAAGTAGC
TGCACTCACT CCAGCTTCAA TTCCAGTTC CCAGGAGAC CTCTCTGGAG CCTGTGAGG ATGTNAGGAC ATAGTCTGAG
GCACATGAAT ATGATGCCA TGACCATAGT TTTGGTGCAT CCTATGTGGA TGGGGTGGG GCGTTTCATG TGCCCGNTT
GGATGCTGCA TCATCTCTCT CCTTGAAC TCCATCTCT GCATCACTTC ATGAGGATGC AGTCTCTGTA CTGGAGGTGC
TGTGGCTGGA ATATGGTGG AAATTGGCTG GTGTGTAGGA

SEQ ID NO:2042: (Length of Sequence = 403 Nucleotides)

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GTATTTGTTG TTTGAGATGG AGTTTCACTT TTMTTGCCCA GGCTGGAGTG CAGTAGCATG ATCTCAGCTC ACTGCAACCT
CTGCCCTCCCG GGCCCAAGCG ATTCTCCTCC CTCAGCCTCC TGAATAGCTG GGAATACAGG TGCCCAACAG CACACCGGCG
CAATTGTTGT ATTTCTAGTA GAGATGGGCG TTCTTCACGT TGGCCAGGCT GGTCTCGAAC TCCTGACCCC AGGCGATTCC
CCCACCTCAG CCTCCAAAAG CGCTAGGACC ACAGGCGTGA ACCACTGCGC CCAGTCGGAA GTAATAGTTA TTAACCAATG
TGATGGCCCG GTGTAGGGAC CCTCGCCTGT AATCCAGCA CTTTGGGAGG CCAAGGAGGG AGGACCGCCC GNGACCAAGA
GTT

SEQ ID NO:2043: (Length of Sequence = 331 Nucleotides)

CCCCGTACGG TGTGGCTCTC AGCAGCCTCA CCACAGGCAC CGCAGCTTTC CCGCTGTGCA CCCAGCTGGG TGTGTGAATC
CCCCTGGACT GCGCCAGGC CACCTTCATC TCCCATGACA AGATGGTCAT CTCCCTCAAG GGCAGTCAGA TCTACATGCT
GACCTTCATC ACCGATGGCA TCGTAGGTT CCGAGTGTTC CACTTTTGAC AAGGCGGCCA CCAGCGTCTT CACCACCAGC
ATGGTCACCA TGGAGCCTGG GTACCTGTTC CTGAGTCTT GCCTGGGCAA NTCTCTCTC CTCAAGTACA CCGAGAAGCT
TCAGGAGCCC C

SEQ ID NO:2044: (Length of Sequence = 244 Nucleotides)

ATGGAAGATA CTAAGAGCCT CAGTCTGGAA GCATTTACCT AGGAAGCGCA TATAGACAGA GAAGATCAAG GACTGAGGCC
TGAGACAGTC AGCACTTAA GGTGAGGGG AGAAGTGCCA AGGAGACAAG GTGAGAACAG CAGAAGAGTA GCCAAGGCCC
AGGATGTTGC CACAGAAGCC AGGAGAGGTG AGCATGAAA CAGAGGAGGA CCAGCTGCTG GGACAGAAGA GCCATATGGA
AGAG

SEQ ID NO:2045: (Length of Sequence = 333 Nucleotides)

GTCAGGGATT TGTCCATTCT GCTCTTGCC TCTCTGAGG CTCATAATG GGAGACCAA TCAAAATGT CCCATGTCAC
TTGAGTGGGT AACTGCTTA CAGAACCTTG AGGTGACTC CTGCTTCAGT TCTCAGCTGT TTACCACAGC CCTCCAGGGT
CCAAAGATTG AGGAGCTTTC TCTTCTCTG GAGGAACGT CTCANATTTA GCTTGTGTGT GTTTTGAGCA GAGGCTCCAC
AGCGGTGGCT CTTGAGGAAT CCTCACCAGT TTGINTCTT CCCTCTGACA AGCAGCACCT GAGCAGATGC TGAGGCAGTT
CATTAAACCA GGG

SEQ ID NO:2046: (Length of Sequence = 274 Nucleotides)

GCAGGTTTAT GTTTTATTT ATGTATTINA ACTGACTTAT TTGTGTATCC CACTAGAACA ATACATTAC AATATACITG
CAGAACTGTG CTGGGNCAT CATGGGAGCA GAGAACTGT CAGTGAATA GTTGTGAAG AAAGGAGTAA AATCTCCCC
AAACCCTAAA GGCATCCTTT TCGTAGTGTG TGTCCATAG GTATGGCTGC TGAGCACCAG GGCTGCTCAC CATGCTCCCA
AGAAGCAGAG TCAGGGAGGC AGACAGCAGG GTTT

SEQ ID NO:2047: (Length of Sequence = 327 Nucleotides)

GGCCGCGATG TGCTTTTNTC CTGINTCGC TGCCCGGGAT GCGGAATCTT GAGCCTGGT GTCCGGTTAC AGAGTTGTCC
TGGTGACGGG ATGCGGAGGT TTCTCCTTT TTGTGTGGG GCGGCTGGT GGCAGGGGCA GCTGGTGGCA GGGTTGCCA
CGTAATCTC CGAGTCTCTA AGGGCACCGT CTTCCTGGA TCCCTCTGC GCCTCTGCA TAAAGGCAGA CCCGCGGGCG
CGGCGCGCA ACCTGAAATC AGAGCAGGCG TCCGTGGCG TCAGGAACCT TGCTGAGCTT CCGGATCTT TCATTGTTC
TTCATT

SEQ ID NO:2048: (Length of Sequence = 241 Nucleotides)

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ACTTTGTGTG TCTGATTTTA GGACTCTGGC TGGCCATGTG CTINNGGTTG CCTCTCCTGC APTTINCCACT GGATTINCAC
 TGCATCGTTT GGAGATACAA AGCGAGCAGT TCTTGGTCAG AACCCCTCCTC TGCTTTTCAT TGTGTTTGAT AATGGTTACT
 GGGTCCTTCT CTCAAGGGTA GCAAGGCCAA GCTGATGGCT GCTTGTITAG GAGGCCATCA GTTCCTTCTT GTGGAGAAGG
 G

SEQ ID NO:2049: (Length of Sequence = 269 Nucleotides)

ATTTTTAGTA GAGACAGGGT TTCACCATGT TGGCCAGGCT GGTCTCAAAC TCCTGGCCTC AAGTGAGCCA CCTGCTTTGG
 CCTCCCAAAG TGTGAGATT ACAGGTGAGA TATCTATAT TCATGGATTG AAAGACTCAA TATGTTAAG ATGTCAGTNC
 TTTCTAAAGN GATTTTTTAG ATGCAACACA ATTCCAATCA AAATCCCAGG NTTTTTTTGT AGCTATCAAT TGATAGATAT
 CAACAGCCAG CTGATTCTCA AATTACGT

SEQ ID NO:2050: (Length of Sequence = 170 Nucleotides)

TTTTGAAGAG AACGTCAGTT TAATAAGCT AAATGGGGAG AATTGAAGTT TGCATTTGAC ATGGTATTAA ACAAACCAA
 AGGGCTGAAA CTCATGTTTA GACAACACAG GTCAGTAGTC ACTAGGCAA GAAACAGTC CACAGCAGGT GGCACAAATA
 ATTCCTATAC

SEQ ID NO:2051: (Length of Sequence = 262 Nucleotides)

CAGGGCACAC GCAGGACCAC TGTGGATTAG AAACCCACAC GTGTCACTCG CAACATTCCT CCCACATCCA CATCCACGAC
 GGAGCCAAAT CTCATTGTGTC ACCCTCAGTC ACCACCCAC AAGATGGAGC CGCTGGTTAC GACATGGATG ACAGGTGTCA
 TGCACAGGGA GAGAATTTNT CCCCGGATAC CCTGAGGAC CAAGGACCAC CCCAGGCTA GGGTGGGAGG ATTGAGAGCA
 GTGCAAGAAA CCAAGGAGGA TN

SEQ ID NO:2052: (Length of Sequence = 325 Nucleotides)

GAAAAAAGAT TGTTTTGTGA GAAAAAGCAA AAACAAAAAA GCATTAGAAA GTGGGAGCCA CTGCACAGCA GTAGCCTAGA
 GACTGGCTGC GATATGGTAG CTCTGCCTTG ATATCATCTT CGTGTCTTCA GGCATAGAGA AATGGCAGAG GAGCAGTAAG
 ACCCCACAGG AGATGGCCAG AGGNTCCACC ATCAGCCTTC TGGGGACTGA GGAGGTGATC TTAGTGGAAT TATTTTATAC
 TCACCTCCCC CGGGTTTAG TCCTTCTCTC AAACACTTAG TTCCAGGCG CAGGAGACCT GTTACTAGCA CTGTATGTTT
 CTTTG

SEQ ID NO:2053: (Length of Sequence = 222 Nucleotides)

TTTCAAAATT AGTCTTAAGA GTATAAGCTG TTTTINAGGG CTGTAGCCAG ACTACATAAT GAGCGGTGAA AGCGGCTGCC
 TTCCCCTCTC CTGACACCAG CAAGGGGGAG GCACCATCAC CGGCCCTGCC CCATCATGCA TCCAATGATT ACTAGCACTA
 GANGCCAACG GCAAAGNCC CCGCGCGCTT GCTCGTGTTT AATCCAGGTT AAGCTATACA CG

SEQ ID NO:2054: (Length of Sequence = 341 Nucleotides)

GTAAATTAG AATATGGCCC CAGAGTTTGG TTTATCTGGG GTCTGAGCAT AGATTTTATA TTCTCTGTTG CGTTTTTTAA
 ATCTAACTTT CTGTCTCCA TGGAGAGAGA ACAGGGAGGA TACAGAAGTA TTGCAGCCCA GATCCCCTAT CAGGGGGACA
 GCTGGTGGGC AAAGCAGCCA CCCACAGCC TTGTGGCTAG AGTACAGTGG GGTGGACCCT CCAGCCCCAA TAGCCCTAGT
 ACCCAGCTGG CAGGGTTGCC CACCCCTGCT GTCCACCTGC TCCATCCTCT AGGGGTCCA CAGGCCCTG ACCGCACAGG
 GAGGCTGGGG CCAGCCTGGT C

SEQ ID NO:2055: (Length of Sequence = 258 Nucleotides)

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CTGCCTCAGC CTCCCAAGTA GCTGGCATT A CAGGCGCCCA CCACCACACC TGGCTAATTT TTGTATTTTT AGTAGAGACG
AGGTTTCACT ATGTTGGCCA GGCTGGTCTT GAATTTCTGA CCTGTGATC CGCCTGCCCTC GGCTCCCAA AGTGTGGGG
ATTACAGGCG TGAGCACCAC GCGCGGCCAA CTGTCTTTTC TCTAATGGCT GGCGATGTTA ATTTTTTCAC TGGCTTATTT
ACCGTCTCCT TCTGTGGA

SEQ ID NO:2056: (Length of Sequence = 292 Nucleotides)

CTCTTGACTC CGAAGGCTGG TGACAGACAC ATAAGGCAGC TCAAACCTCTT GCAACTTCCG TACAAAAGAA AAGGCTCCAT
CCTCTTTTTT TCGAACTAAG AATAGACTAA AGTATCCAAT CAAGTCATCT GGAAGATCCA GCTTTGCAGC TACAGCCTCC
AGGACATCCT CAGTCTGATC TGAAGTTAGC ACGTTGACCA GAACCTTCTG CCGTTGCTG AGCAGCACTT CCAAGGACAC
TTCTCTGTG GGGACCTGCT GTGTCTCTG TTGTGCCCGA CGCAGGAAC TG

SEQ ID NO:2057: (Length of Sequence = 293 Nucleotides)

CCAAAAAAGT TGGTGCCTG AAGGTGGGGT TTGTATCATG GCCAGGCTTC AAATTTAGGT CAGGCTCTGG TGGTACATCC
TTATATGCTT GGTGCTCAGC ACAGGTCAAG ACACACAATA GACCTCAAT AAATATTTGC TGAATTTGAA CAATTCCTGT
AAAAATCTCA TTAAGAGACA TCAGCTTGGG ACACAGTTC TCTCTTACTG TTCTTCTCC CAGAAGCTCC TGGATGAGC
AGGTCTGGCG GCAGGGGGCA CACAGGGCTG CTGCTCAAAT CGGAGAATGG CAC

SEQ ID NO:2058: (Length of Sequence = 172 Nucleotides)

CTTCTACAGT CAAGGAGCTC AAGCTCGCG GGCGACCTG CTCTGCCTC CCACATTAAT GGCGGCATCC TGGAGGATG
ATATAGACCG GCGGCCCATC CGGAGAGTGC GCTCCAAGAG CGACANGCG TACCTCGCAG AGGCCAGGTT CTCCTTTAAC
CTGGGGCAG CT

SEQ ID NO:2059: (Length of Sequence = 245 Nucleotides)

GCAAGANGGC CGAGGGGGCC CAGAACCAGG GCAAGAAGGC CGAGGGTGCT CAGAACCAGG GCAAAAAAGT AGAAGGGGCC
CAGAACCAGG GCAAGANGGC TNAGGGGGCC CAGAACCAGG GCAAGANGGC CGAGGGGTCT CAGAACCAGG GCAAAAAAGC
CGNGGGAGCC CAGAACCAGG GCCAAAAAGG AGAGGGAGCC CAGANTCAGG GTAAAANGAC AGAAGGGGCT CAGGGCAAAA
AGGCA

SEQ ID NO:2060: (Length of Sequence = 318 Nucleotides)

ATGCCCTGTT AAGGAGCTTG GGCTTGATCC TCTAGGCAGG GAGCGTTGG AGGATTTAAG CCAGGGAGTG CTGCGGTTGG
TCACACTCGC CATTATGTA GATCGTTTGG GCAGCCAGGG GAAGGATGGA TTTNAGGGGG ATGAGATTAG AAAGCTGGGA
TATGAGTAG GAGGCTGAAA GATGGTTGAT AAAAAATATC GTTGGGCAGC CGAGATAACT GACTTCAAGG ACATATACTG
GACTTATAGC AGAGCCTGTT GAGTCTTGCT TTGACACACA GTTCAAATAA TCACTTAGTC ATGTGGTTTA TCTTGCCA

SEQ ID NO:2061: (Length of Sequence = 331 Nucleotides)

AAAAATAAAA ATCTATAAAC TACGGATCAT AAGCAACTCC TGTTCCTGTG GGTTTCACCA CATCTCCAG AAAGTGAAT
TTTGCTCATA AAAATTACAT AGAATGTAAA CTAATTCATT TTTTAAAGTA AATGCAAAAC TAAGGGTTAC ACAAGCACTG
AGCATCAACA CTGACAGAA ATTAATTCTG AAGCCCAATTA ACTTTGACAA ACGTTTATTC ATCTTTGCCT TCTTGAAGCG
TGAGACTATC CCAGTTTAC AGGAAAAGCT TAAACAGAAA AAGTTAAATA ATAATCTCAA GGTAGNAAA CTAAGACATA
ATTTCTAGCT C

SEQ ID NO:2062: (Length of Sequence = 316 Nucleotides)

438

CTAAATCAAA CCACATAATT GGACATAAAA GAATCTTCAG CAAATACAAA AGAACCAAAA TCATAACAAA CACACTCTAG
GGCCACTGCA CAATAAAAAT ACAAGTCAAG ACTAAGAAGA TCACTCAAAA CAATGCAATT ACATGGAAAT TAAGCAACAT
ACTCTCAAAA TGACTTTTGG GTAAATAATA AAATTAAGGC AGAAATAAAG AAGCTCTTTG AAACCTAATGA GAAGAAAGAT
ACAACGTATC AGAACTCTG GGTACAGCT AAGGCAGTGA TAAGAGGAAA ATTCTTAGCA CTAATGCTC ACATTG

SEQ ID NO:2063: (Length of Sequence = 312 Nucleotides)

ATCCATGGCT TTAGCAAGAT CCCAGTGTG GAACTCTCT AGCAACTTGT NITCATCCAG TGATACTGGT TCTNIGGGGG
GCACTTACAG GCAGAAGTCC ATGCCCGAAG TGTGGAGTGG AGCCGTAGAT CCCCAGCCTC CACTGACAGG CAGAACACCC
AGTCAGATAT TGGTGGCAGC GGAAATCCA CGCTAGCTG GCAAAGAAGT GAGGATAGCA TGTCTGACCA GATGGCTTAC
AGTTATAGAG GACCTCAGGA TTTCAATTCT TTTGTCTCTG AGCAGCATGA ATATACAGAG CCAACATGCC AT

SEQ ID NO:2064: (Length of Sequence = 294 Nucleotides)

TACCTAAAGA ATCCTCAGAT GGGAGACCCA GCCAGTTTGG NTCACAAAT AGCAGAAGTC AGCCAAAATA TAGAGAACT
GCGAGTAGAG ACCCAGAAAT TTGAGGCCTG GCTGGCTGAG GTTGAAGGCC GGCTCCAGC AGCAGCGAG CAGGCGCGCC
GGCAGAGCGG ACTGTACGAC AGCCAGAACC CACCCACAGT CAACAACCTNC GNCCAGGACC GTGAGAGCCC AGATGGCAGT
TACACAGAGG AGCAGAGTCA GGAGAGTINAG ATGAAGGTGC TGGCCACGGA TTTT

SEQ ID NO:2065: (Length of Sequence = 331 Nucleotides)

GAGCTGAGTT TCACCGTGT GCCCAGGCTG GTCTCGAAT CCCGTCTCA AGTGATCCTC CTACCTCAGC CTCCCAAAGC
ACTGGGATTA CAGGTGTAAA TCACTGTGCC CAACCTGCTC AAACCTCTGG AGAGAAGCAA GTCTTCTAGC TGAACGTGAT
AATGGCCTCA AAAGCAGTGT TGACAGCAGA TAATCTTCAC ACAGACAAAT GTCTACAGTT TCTAAATAAG CCAACTGTGC
ATATGGCCTA CAGGCTCTTC AGCATAACCT ACCCAAAGCT CAGGTTCCT GAAGGCCAGG ACAGTACCTC GGGCCTTCAA
GCAGCATTTG G

SEQ ID NO:2066: (Length of Sequence = 321 Nucleotides)

GTCTTGANCT CCTGACCTCA GGTGATCCAC CANCTCGGC CTCCCAAAGT GCTGGGATTA CAGGCGTGAG CAACCGCACC
TGGCCTTGAA CCCTTTGAAG TATTGATGCA AAAACAAGTG GTGAGCTATG GCCAAATTCG CAATTCAAAA AGATCCAAGA
AAGCAAGTTG AACATCTGA TTGGAGATGG GACACACCCA AACGTGTGTC TTGAGGTGGC TGCAAAGTCC TCCCGTCTGA
GCCAGTNTAA GCAGGTTTTA CCCCAGCCCA TGATTTAGAG AGATGTTNAG TGCAGATCCT GAGCTCAGCA GAGAGCAACA
T

SEQ ID NO:2067: (Length of Sequence = 335 Nucleotides)

CTGGCTCTGT GGCTCAGGCT GGAATGCAGT GGGCCGAGGT TGGCTCACTG CAACCTCCAC CTCTGATCT CAAGNCGTCC
TCCCACCTCA GCCTCTCAAG TAGCTGGAAC TACAGTGGAA CTACAGGTGG ACAACATCAC ACCCAGCTAA TTTTININAT
TTTTGTAGA GACGGGGTTT CACCTGTGTT CCCAGGCTGG TCTCAAACCT CTGAGCTCAA GCAATCTGCC CACCTAAGCC
TCTCAAAGTG CTGGCAATAC AGGCATGAGC CACCGTGCCT GGCTGGGAA GCTCTTTTAA CAGAGGTGAT GTAAAGTAGA
AAAAGCAGTG GGCTC

SEQ ID NO:2068: (Length of Sequence = 274 Nucleotides)

GCAACCGAAT GGACAGGGTA AGAAGGAAT GGAAGAGGC AGAGCTTCAA GCTAAGAACC TCCCAAAGC AGAGAGGCAG
ACTCTGATTC AGCACTTCCA AGCCATGGTT AAAGCTTTAG AGAAGGAAGC AGCCAGTGAG AAGCAGCAGC TNGTGGAGAC

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CCACCTGGCC CGAGTGAAG CTATGCTGAA TGACCGCCGT CGGATGGCTC TNGAGAACTA CCTGGCTGCC TTGCANTATG
ACCCGCCACG GGCINATCGN ATTCTNCAGG GCTT

SEQ ID NO:2069: (Length of Sequence = 321 Nucleotides)

GTGCCATCTG TTTACTTCTC AAATGAAAAA GAATTCAGGT CTGAGTGTC AGGAAAGGGG GTGAATTTCA TAACCGCCTG
TGACAGCGAT GGAAGGAGC CACACCCCTC CAGAGGTAC CACCCAGCG ACAAGTGGG AGGAGGAAGT AGCTGGCATG
AAGCGGCCC ACCCAACCTC CGGAGAGAG GAAAAGGAGA ACACGGGATG AGGAGGCTTT AAATAGTATT TCATAAAATA
AAAATGCCCA GCACTCTTAG GAACCTCTCA TTCAACCGCC TAGTTTTTGT TTAAATAATT CTAATGCCAG AGCTGGGGG
C

SEQ ID NO:2070: (Length of Sequence = 161 Nucleotides)

AAAGTCGAT AAAACAAGTT TAATTTCCAA CCAGGGTCAC AGTCATCGG TTATCCACA TTTTGAGCAA GGATAGAGAA
GGTGAGTTAT TAAACATATA CAGTCATACAT TCCAGAGGAG GAACTGCAGT TACCACTATA ACACCACAGA CAACTTTGG
G

SEQ ID NO:2071: (Length of Sequence = 288 Nucleotides)

GTGGAAGGGC CTTCATACAT GCTTCCATC TTCAGGAACA TCAGAGAATT CATACTGGG AGAAACCATT CAAATGTGAT
ACATGTGGTA AGAAGTTCCG TCGTAGATCA GCACTTAATA ATCATTGCAT GGTCCACACA GGAGAGAAAC CATACAAATG
TGAGGNCITG GGTAAAGTGT TCACTGTAG CTCAAACCTT CGTATCCATC AAAGGGTCCA CACAGGAGAG AAACCTTACA
AGTGGAAGA ATGTGGTAAG TGCTTTATTC AGCCTTCACA ATTTCAGG

SEQ ID NO:2072: (Length of Sequence = 284 Nucleotides)

TCTTGCTTC AGACCCCTTT GCGTATGT COCTCCTAAC TGGGACCTAA GCTAAGACTC AAGGGCTGCT CCCATGCCCT
TCAGTATCCC CCATAAAATC TACTACACA TTAGAAACTC AAAGAATAGC ATAGGCATGA TCCATCACCT GCAACAGAAG
CAGTGAGGAG ACTTAAGCCA GGGTCCCTNC AAGNGATTNC ACCGACCTT CCTGCATCTC TGNATGCCG ACTCCTAAGC
ATTTACTCAG ATTTTAAACA GCACATAATG CCATGGCGAG GATG

SEQ ID NO:2073: (Length of Sequence = 270 Nucleotides)

GGAGCGATAC GCCCCTGTG CGAAGGACCT GCGTCTAGA GATGTGGTGT CTCGGTCCAT GACTCTGGAG ATCCGAGAAG
GAAGAGGCTG TGGCCCTGAG AAAGATCAG TCTACCTGCA GCTGCACCAC CTACCTCCAG AGCAGCTGGC CACGCGCCTG
CCTGGCATTN NANAGACAGC CATGATCTTC GCTGGCGTGG ACGTACGAA GGAGCCGATC CCTGTCTCC CCACCGTGCA
TTATAACATG GCGGCAATC CCACCAACTA

SEQ ID NO:2074: (Length of Sequence = 278 Nucleotides)

GCACATGCCA TCAGTCTGG CTAATTTTIG TATTTTGTAGT AGAGACGGG TTTCGCCATG TTGGCCAGGC TGGTCTCGAT
CTCCTGACCT CAGCTGATCT GCCCACCTCG GCTCCCAA GTGCTGCGAT TATAGACAGG AGCCACCGNC CCGACCCCTC
TCTACTTCT CAAATCTCTT TCCTTTTCC ACCTTCTAGG TGTCAAAGAC AGTGGATGGT CTCTGAGGTT CAAAACCAAG
CTGACCGGT AAGTATTTAC AGCAAAGCAT CCAATGGG

SEQ ID NO:2075: (Length of Sequence = 232 Nucleotides)

GTCTTAGGA TTAATCAAA CCCAGGATCA CGTTTTGTG ATGTTATCAA GGCATGATT TGGATTTCAG AGCTGGCCCA
GTGAACAACA AGCAATCAAG CATTCCTTC TCTTCTTC TCTCTCTCAC ATATACACAC AACTCTTTC TCTCTCACGT

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TACTTTCACCT GTCACCTTCT CTCTACTGGA TAACAGGCCA AAAGTACTGG CACTCATCTT TCACTTTCTT CC

SEQ ID NO:2076: (Length of Sequence = 223 Nucleotides)

GTCACGAGGT CAGGAGATCA AGACCATCCT GGCTAACACA GTGAAACCTC ATCTCTGATC TATTCAGGGC TCINACTTCT
TCCTGGTTTA GTCITGGGTG GGIGTATGTG TCCAGAAATG TATTGATTTC TTCTAGATT TTAGTTTTATT TNGTAGAGG
TGTTTATTCT CTGATGGTAG TTTGTATTTC TATGGGATCA ACGGTGATAT GCTCTTTATC ATT

SEQ ID NO:2077: (Length of Sequence = 323 Nucleotides)

GTCCCCCTTC CCTCTTGTG AGACCAGGCT CTGTCTCAGG AACAGGCGTG AGGGAGGAGG AGCCACGTTT CTCCTTCCTT
GGAGCCCTGA GGTGGCCAGG CTGTCCCCAC ATAAAGCATG ACATCCAGGT GCCAGCTGGC TAAGAAATGG AGCCTGAGGC
TGCAGCTCAC CACCTGTACC TCACAGATGT CCATTGAGAG GAAAGAAGGG TGCTCCAAAC GCCAGGCCCC CAAGGAGCAC
AGACTCAGGG TCCAGGCAGG TTCAGTGCTA GTAGGCAGGT GGGCACTGCT GTCCAGGAAA ACCTGGTGGG CAGCTGTTTT
CCC

SEQ ID NO:2078: (Length of Sequence = 310 Nucleotides)

AATTTGCAGT TGTTAAATCA AACCTACTGA CATTTATAGT CCCTTACTTT CTCTCTTTC TTCCATTGTA AATGTCGAA
ATGTOGTACA GTCATACTTC CCACTGTATT TTTAGGTTTT ACTCTCATA TCAATAATC ACTACCACCC TTTATTTCAA
TAAAGTTTT AAGTCAGTGC TGATTTTTTG GTAGCTCCCA TTTCTGATA TATTGTTCAT GTACATATGC AAGTGTATGT
AATGTAGGTG TGCATCTATA TATACCCACA TATACATATA TACATATACA TATATATGTC CATATACAG

SEQ ID NO:2079: (Length of Sequence = 281 Nucleotides)

GAGACCTGCC AGAAGATTAA AAAAAAGAA GAGAGAAAAG CCCAGTTAGT GGTGIGCAAA CTTACTTCCT TTAAATGTCC
CATGGATGTA GGACAGTGCC ATGTTTCAAG ATGCCTGTGA GCTAGGTCTT CAAGATTTAT AGAATGTTAC TTATGAACAA
AATATAATTA TTTATGGTAC AATCTCTGTA CTTAGCAAA TCTGGAGTTA GTTCATAGTC AAAGTCAGTT AATATTTCTT
AGAGGAAAGT TTTGGCTTTT TGTGGCAACA TTTTATAGC T

SEQ ID NO:2080: (Length of Sequence = 311 Nucleotides)

ATTAAAAAGA ATATTATTTA TTATCTNCTT TATTAATACT CACATGTAAC CTTTGCTTTT TACACAAAAG TCTGCTTTAG
AAGAAATGCCT CCNCGGCTTA TCATGCCCAA TGGGGCTTTT TGTTTCTGGA CCACTTCCCC TTTCTCCACC CCCACCCCA
CATCCAAATT ACTCTTAACA TGTTACAGA TACCACGNAT ATTTTGTAAG CAAGNITTGG GTTACTGGAA CTTGATTTC
TTAACATCCC ACTTCAAAT GGAAGGCAGG TGGAGGGCAG GGTAAAGNAA TAGGGGGAAA GAGGGCAAGA G

SEQ ID NO:2081: (Length of Sequence = 207 Nucleotides)

GGACGCACGC TCGCTGCCAT CACCGCTGGG TGGTTTTTTC CCCCTAACTT TTTACTTAGC CTTTTTGGTT TGTTTCCCCA
CCCCCACCTC CTCACCCCTT TTCCAGTTCT TCTTCAGGCC CCTCCAGAC GCACCCAGC GGCCCTGCA GCCCCTGCCT
CCAGCCTCCA GCCTCACCTT TGTGCCAGA CTCGCAATTG GAAGACT

SEQ ID NO:2082: (Length of Sequence = 260 Nucleotides)

TTAAAAGAAA GTGCATACCT ATTTGCAAGG AAAACAAATG GAATAGACAA AAATTTTAGA ATATAAGAC TTTTNTNCA
TTATGTATGT GTTTACAATT CAAAATAATA AAGCTAGTTA AAGTCAATA CATATTAGAT ATATTCAAAT ATTTTNCCTA
ATAAATTCG ATCTTATCAG TTAACACCCA TAGCAAAAGA CTAAGGAGTA TTTGTATAAC ATTAGGGTAT TTGACCTCAT
ATTCTATTCA TTTGGGTTTA

SEQ ID NO:2083: (Length of Sequence = 257 Nucleotides)

AGTTTCATAT GTTTATTAAA CCAAGCATGA GGCCCTTCTG TGCACAGGCG CCTGTGTGAC GGCATGGGAG GCGTGCTCAT
GAGGCTGGGC GTGCCCGCCA GAGACCTTTC TAAAATGCAG ATTACGACT CTCCTCCTCA AGCCACCCTA GTGGCCAGTG
GGGTCAATTC GGATCAGAGA TTCCTGGAAT AGATCTAACT AAGATGGTAG ATATTATTTT AAATAATGCC TTTTINAGGA
ACTAGCTGCT AGGCTCT

SEQ ID NO:2084: (Length of Sequence = 255 Nucleotides)

TATTATACAG CATGTGCAAG ATTATTGAC AAAAGGCAGT AACAAAGCGA AGGAAAACAC ATTTACAAGA AGCTGAACAA
CTTGATCAG AACATACATC AAGGTGAAGA GTTTCGGCCC TCTTGGTATA GGTATGTAT GTGTACATCT CCAATTTTGA
ACAATGATGA CATAAGGCT AATACTCTAT TTATTCAGGN GACCCCATAA TCAGGATAAT AGTAGGCATT CAGAGTAATA
AAGTGATCAC AGTTG

SEQ ID NO:2085: (Length of Sequence = 290 Nucleotides)

GGACGCACGC TCCTGCCAT CACCGCTGGG TGGTTTTTTC CCCCTAACTT TTTACTTAGC CTTTTTGGTT TGTGTCCCA
CCCCACCTC CTCACCCCT TTCCAGTCT TCTTCAGGCC CCTCCAGAC GCACCCAGC GGCCCTGCA GCGCTGCT
CCAGCTCCA GCCTCACCTT TGTGCCAGA CTCGATTG GAAGACTCA CCTCCGCC AGGCCTGGG TGTGGGGG
TTGGAGATTC AGGTTTTAAT CCACACAAGC CCCAGTGAGG GGTGAAGCAT

SEQ ID NO:2086: (Length of Sequence = 342 Nucleotides)

AGTTTCATAT GTTTATTAAA CCAAGCATGA GGCCCTTCTG TGCACAGGCG CCTGTGTGAC GGCATGGGAG GCGTGCTCAT
GAGGCTGGGC GTGCCCGCCA GAGACCTTTC TAAAATGCAG ATTACGACT CTCCTCCTCA AGCCACCCTA GTGGCCAGTG
GGGTCAATTC GGATCAGAGA TTCCTGGAAT AGATCTAACT AAGATGGTAG ATATTATTTT AAATAATGCC TTTTINAGGA
ACTAGCTGCT AGGCTCTCTA TCCTGGGAGA AGAAGGTGAA GGTTCGCCAA TATCAATTTT CCCAACTCAG CCAAGATTTT
CCCAGCATCT NCAGGACAAG TG

SEQ ID NO:2087: (Length of Sequence = 306 Nucleotides)

TATTATACAG CATGTGCAAG ATTATTGAC AAAAGGCAGT AACAAAGCGA AGAAAACACA TTTACAAGAA GCTGAACAAC
TGTATCAGA ACATACATCA AGGTGAAGAG TTTCGGCCCT CTGTTATAG GGTATGTATG TGTACATCTC CAATTTTGAA
CAATGATGAC ATAAGGCTA ATACTCTATT TATTCAGGAG ACCCCATAAT CAGGATAATA GTAGGCATTC AGAGTAATAA
AGTGATCACA GTTGAATGAA CGGTTCACC AAAAGTCTTA GACCAACCTG ATATCATCTT ACACCT

SEQ ID NO:2088: (Length of Sequence = 326 Nucleotides)

ATTGAATAAC TTAGGCAATC TTCCACTTTG ACTGAAATGA TTAAGATCAG TTTACCGAAA GTCATTTTAT CCTTGCCTTG
CAGGCATCTG GCTATTCTTG GTGCAGGCT GATGGGAGCA GGCATCGCCC AAGTCTCCGT GGATAAGGGG CTAAAGACTA
TACTTAAAGA TGCCACCCTC ACTGCGCTAG ACCGAGGACA GCAACAAGTG TTCAAAGGT AAGCTGCTC TCTCTCTTG
CAAGAGTTAG AATGTCTTT GTTCTTGGT TAGTGTGTTT TTGTGGTGC TTGGTGGGT TTTTGTGTTG TTTGTCTTG
CCATCA

SEQ ID NO:2089: (Length of Sequence = 291 Nucleotides)

GGGTTCCCT TTCCACTCAT CGGAGATCA GAGGGATGAG CTGGACCAG CTGGGACAGG GGTGTCCGT GAGGCTGTAT
CGGCTGCT GATCATGGA GCGGCGGAG GCTCCCTCAT CGTCTCTCC ATGCTGCTCC TGCGCAGGAA GAAGCCCTAC

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GGGGCTATCA GCCATGGCGT GGTGGAGGTG GACCCCATGC TGACCCTGGA GGAGCAGCAG CTCGCGGAAC TNCAGCGGCA
CGGCTATGAG AACCCACATT ACCGCTTCTT GGAGGAACGA CCTGACCCG G

SEQ ID NO:2090: (Length of Sequence = 293 Nucleotides)

TTATGTGGAA TACCACACGC CCTGGTACAT GGCTGAACTC TTCCCTTCA TCCTGCTTGG GGTCTTCGGG GGCTTGTGGG
GAACCTCTTT CATCCGCTGC AACATCGCCT GGTGCAGGAG GCGCAAGACC ACCAGGCTGG GGAAGTACCC GGTGCTGGAG
GTCAATTGTG TGA CTGCCAT CACTGCCATC ATTGCTTACC CCAATCCCTA CACACGCCAG AGCACCAGCG AGCTCATTTT
TGAGCTGTTT AATGACTGTG GAGCCCTTGA GTCTTCCAG CTCTGTGACT ACA

SEQ ID NO:2091: (Length of Sequence = 274 Nucleotides)

CTTTTGAAT GGTCAAACAA TTAAAGTCAA ATGTTTAAAT GGTGCAATTA AAATAAGGGT TCAAACATGT TTTCAATATA
TTAATNCTT TAAAGTCATG TTCAGGCAAG GTGCTGTTTA AAAAACCCT ATTAGCTTTG TCCACACATG TAAGTTATCA
AAAGTTACCA AGGTAATTTT GACGTGAAT GCAGCTTTAA ACAATAAAAA AATGGTATTA GGTTTACTTC TCGAAGCAAA
GAGAGCCCC AACCTTGTA ACTAAACATT CTGA

SEQ ID NO:2092: (Length of Sequence = 290 Nucleotides)

GGTACGTAGG ACGCTGGCCC TGTCCTCCG CGGNTCTGG TCAGACACAA TCATGGTCTC CACCAGGAGG TGTGCAATGC
CTGGNAGGGT GGTTCGTCTC AGGTCCAGGA GGGCAGATCC ATGGGCGATG GTCTCTCTGA GCTCCAGAAG GCTACGGAAG
GAGAGCGAGG CAACATGGGG CTTCCTCCAG CGCTCCGTCT CCTCTCCAC GTCTCTCTCA AACTTGATCC AGCGGGCCGT
CTCCCGCCAG TGGGGCTCCT GGCTGCGGTC CAGCATCAGC TCGTTCAGCT

SEQ ID NO:2093: (Length of Sequence = 323 Nucleotides)

AGCTACACTG ATACAAGTGG ACCTAAAGAA ACGAGTTCG CTACTCCGGG ACGAGACTCC AAAACCATCC AAAAGGGATC
AGAAAGTGGG CGTGGGAGGC AGAAATCTCC TGCACAGAGT GACAGCACAA CACAGAGAAG AACTGTAGGC AAAAAACAAC
CCAAAAAGGC TGAGAAGGCA GCTGCTGAAG AGCCTCGTGG AGGCTGAAG ATAGAAAGTG AAACCCCTGT AGACTTGGCT
AGCAGCATGC CCTCCAGCAG ACACAAAGCA GCCACCAAAG GCTCAAGGAA ACCCAATATA AAGAAGGAGT CTAAGTCTTC
CCC

SEQ ID NO:2094: (Length of Sequence = 255 Nucleotides)

AAGGATGTTT TGTTCCCTG CCTCAAGGCC GGCCATGTGG GAGTTGTATC TGTGGAGTTC ATGCCCCAG CCTTGGAGGG
AACGTATACT TCCCATTTGG GTCTTTCTCA CAAAGGCCAG CAATTTGGGC CTCGGGTCTG GTGCAGTATC ATAGTAGATC
CTTTCCTTC CGAAGAGAGC CTTGATAACA TTGAAAAGGG CATGATCAGC TCAAGCAAAA CTGATGATCT CACCTGCCAG
CAAGAGGAAA CTTT

SEQ ID NO:2095: (Length of Sequence = 305 Nucleotides)

GCACTCCAGC CTGGGCAACA AGAGCGAAAC TCCATCTCAA AAAACAAAG AAAGAACTN CTGAAGTCGG GGGCTGCTAG
AGGATTTTCA GGAAGGGTCA ACACAGGCCT CACTTCCAGT CCCTCATTTT CCAGCTCACA GAGTCACCAG AGGGTGAGAA
GCAGAACGTG CCAGCAAAGA GGGAAAAGGC CACAGAACCA CCTTNTCTC AATTACAAAG GGGTGATTT CAGAGGAGGG
AATAGGGATG GAGAGGAGGA GAAGCCTGC CCAGGAGCCA GATAAATTCA AAGTCACCA GATGG

SEQ ID NO:2096: (Length of Sequence = 327 Nucleotides)

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CTAGATATAA CTACCCCTCT CTATTCCTCA CCTAAATCCT TATACTGCTG ATGACTTTGG AAAATAGTAC AGGGTTTTAC
 AGTCTAATCA TGACAATACA TCTCCAGGNT CCTTGAGCCA AATACATTCC TCAGAATACT TTTTTTAAAA AACTGAAATT
 GATTACTTGT ACTTTGTCTAT CACCAAAAAT ATCTGTAGCA AGACATACTG TTCTCAGCAT CCACCTCTAC CATCTCACT
 ATTGTAACTC ACAGTAGACT ATGCCTCCTA CTCTACTGAA AAGATACAAA CCATTACCTA GCAATCATTG TTCCACCTTA
 AACATAT

SEQ ID NO:2097: (Length of Sequence = 296 Nucleotides)

CACCCCTGCTG AGGTCAATTT CGTCACTGAT GCCTCGGGTC ACATAGGCCC TGATGACCCA GATTTCACAC AGAGGTCACT
 ACATCGGTCA ACTTTCTCTC CAGGAGGGGC CGGGGCTGGT GGGCCATGCC CACTCCGTGC CACATGCCCTA GCATTCAGAG
 CTTTGTAAAG AAGCCCTGTT CTAAATGCTC AGGTCCACC CTTCCTTGTG AAGAGAAGCC ATGGGCTTCC TGCTCCTGTG
 TCACAGTGTG CCACTGAAG GGTGGCTCTT CCCATTCTT CTTCATGGG GGCCAG

SEQ ID NO:2098: (Length of Sequence = 324 Nucleotides)

ATTGGTTTIN TTGAGTGT TTCTCTTTT NITGTPTTC AACATACTTA CTGCGTATAA AGTCATGCAA AGAAAACAGT
 GCAGACAGTA GATCCTAGTG GATGTGCCAA GGTATTCCAC TCAGAGTCAA TCCAGGGAA AGAGGGAAAG AGGAAAAGAA
 AGAGAGAATG CGAACCCGAG GCTGCAGGAT GAGGCATGAA GAGTAGAAAT TCCAGTGTCT TTGCTGTGGT CATCAGACGC
 CAAGGGGAGA GAGGCAATNA AGACACACGC TCACGGGCCC CCCAGAGGTG GTTGGGGGT GCTGGGGGC GGCACACAGA
 TATG

SEQ ID NO:2099: (Length of Sequence = 299 Nucleotides)

GAAACCGTCA GTAAGGAGCT CTTTATCTTT ACCTTCCAC TCCAAACCTA CTGCTAGCT GTTCTTATCA TTGCTCCTT
 TTCTCTGTC ACAAAAATGT GTTCATCTT AATGAACACA TTTCTTAAT GTCTTCTTA ATGAAGGACA GTCCCTTTC
 CTGTGCTGTG AATCCCATAG TAATGACATT AGCTTAAGTT TTCTGAGCAC TTGCTATCTG CCAGTCTCTC CCATGAATTA
 TCTTGCTTAA GCTTTGCACT ATACCTGTGA AATAGGTGGC AGTAGTTGTC CCACCATAC

SEQ ID NO:2100: (Length of Sequence = 308 Nucleotides)

GCAGCTTAT TTGGATTGG TTCACAATGT GGATCAAACA GGAAAATCTG TTATCATCAA CAAGACCAGC AGCACCAGAA
 TNINCCGAGT CTTCCAGCAG TGCAGGCTCC TCAGGNTCC TGTCCTGCAC CCATCCACCT CTCCAGAGCA CACCCCTAGT
 CTCAGGTGTG GCAGCTGGCT CTCCAGGCTG TGTGCTTAT CCAGAGAATG GAATAGGGGG CCAGGTGTCT CCCAGCAGCA
 CCAGCTACAT CCTCCTTCCA CTGAAGCTG CAACAGGCAT CCCGCTGGG AAGCAATCCT TCTTTAAT

SEQ ID NO:2101: (Length of Sequence = 291 Nucleotides)

GATGATGATT GCATGGGTT TGATGCTACA CTGGATCATA GAGTGTGGT TCTTCTTAC ATGINTTGGT AGATAAATGT
 CATAGACTGA TCTGAATCC ACATCAACAG CATGGAATCC AGCACAGGAT CCATAGATCA CTTTCAACCT CTGGCCTTCC
 TCAACAGTGA GATCCACCAG TAATGGCTTA TGTACCAATT CTCCAATGA CTTAAAGGCC ATAAATTTGG TGATATGGCT
 TTGNGCCCA CGCATAGGAC TTCCACAGAA CTTTTTCAA GGCAATCACC C

SEQ ID NO:2102: (Length of Sequence = 323 Nucleotides)

GATGATGATT GCATGGGTT TGATGCTACA CTGGATCATA GAGTGTGGT TCTTCTTAC ATGINTTGGT AGATAAATGT
 CATAGACTGA TCTGAATCC ACATCAACAG CATGGAATCC AGCACAGGAT CCATAGATCA CTTTCAACCT CTGGCCTTCC
 TCAACAGTGA GATCCACCAG TAATGGCTTA TGTACCAATT CTCCAATGA CTTAAAGGCC ATAAATTTGT GATATGGCTT

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TGGTGCCAC GCATAGACTT CCACAGAACT CTTCAAAGCA ATCACCAGAA ATTIGATTCT TTCATATTTT ACAACTTTAT
AAT

SEQ ID NO:2103: (Length of Sequence = 270 Nucleotides)

CCTTTCACTC CCCCGCCCTG GGCTCTGCT CTCTTGCCCTG GNTTCCTTCT TTTTGTAGGG AAAGAGGGTG GGGCTGCAGG
CAGTCTACTG GCAGGACGGG AGGCTGAGTC CTCAGGGTCT CACACCCTCA GTGCTGATGC CATGCCAACT GCCTGGGACA
ACACCAACAC GTAAGGACCT AATTAAACCA AACCAGAGTC GGGTGTAGAC CAGCCCTGGG ATTTCCAGCT NTGACTNGGC
CAGGGCACAC GTTGGTCTCG GCAGTGGCTG

SEQ ID NO:2104: (Length of Sequence = 367 Nucleotides)

CCTTTCACTC CCCCGCCCTG GGCTCTGCT CTCTTGCCCTG GNTTCCTTCT TTTTGTAGGG AAAGAGGGTG GGGCTGCAGG
CAGTCTACTG GCAGGACGGG AGGCTGAGTC CTCAGGGTCT CACACCCTCA GTGCTGATGC CATGCCAACT GCCTGGGACA
ACACCAACAC GTAAGGACCT AATTAAACCA AACCAGAGTC GGGTGTAGAC CAGCCCTGGG ATTTCCAGCT GTGACTGGGC
CAGGGCACAC GTTGGTCTCG GCAGTGGCTG TAAGGTCACC TTCCTTNCCTC TGGATGCTGG TTTCAACCAT CTATATATGG
CATCCACGCA TGGGATCTGC AAGCTGGAGC CCTCTACCC GCAGCTT

SEQ ID NO:2105: (Length of Sequence = 288 Nucleotides)

GCAAAATTAC TGAACTACT ACTTTGGGCT CAGAACGAGC TGGACCAGAA GAAAGTAAAA TATCCCAAAA TGACAGACCT
CAGCAAGGGT GTGATTGAGG AGCCCAAGTA GCGCTGCNC TTGCTTGGTG GATCCAACAC CAGCCCTGCG TCGTGGGACT
TGCTCANAT CAGCCTGCGA CTGCAAGATT CTTACTGCAG TAGAGAATC TTTTCTCCC TTGTACTTTT TTTTGACCTG
GNATCTTTT ATAGGGAAAA ATGGCCTTTG TAGGCAGTGG AAAACTTG

SEQ ID NO:2106: (Length of Sequence = 349 Nucleotides)

GCAAAATTAC TGAACTACT ACTTTGGGCT CAGAACGAGC TGGACCAGAA GAAAGTAAAA TATCCCAAAA TGACAGACCT
CAGCAAGGGT GTGATTGAGG AGCCCAAGTA GCGCTGCNC TTGCTTGGTG GATCCAACAC CAGCCCTGCG TCGTGGGACT
TGCTCAGAT CAGCCTGCGA CTGCAAGATT CTTACTGCAG TAGAGAATC TTTTCTCCC TTGTACTTTT TTTTGACCTG
GCATCTTTT ATAGGGAAAA ATGGCCTTTG TAGGCAGTGG AAAACTTGCA AGGAAAGCTG CCGTCTCTTT TGGCAGTCTT
GATGCAGAGC CTGCACTCTG GCACTCGCT

SEQ ID NO:2107: (Length of Sequence = 329 Nucleotides)

GTGACAAGCT CCAGAAGCCC GNTTCGCAAC ANCCAGGAGG GCCAGGCCAC TCCAGGCAGG AGGCAGTGGG CTGGCAGCCA
CCCTGGGCAC AGAAGAGCAG ACGCAGACAG TGCTGGGCAA CGAGGGGCTT TTTTCATGGG CCCGCCCTGCC CTGTCCCTCC
CCCCAGGTCC CCACCTTCTA GGGTTAAAGT GCAGCTGGGA GGGAGGAGGC AGGCAGAATT NGGGAGCTAG AGAGAGCCCA
AGTGAACCT GACTGTCCAC GCAAGTCCCA TGTCTCTCTC GTCTGGAGT TCCTCGAGGT TCAGCGAGCC CATCCCGCTT
AGGGCCTCT

SEQ ID NO:2108: (Length of Sequence = 261 Nucleotides)

TTTTCATGGC AGCCTGAGCA GACTAAGACA GCAGCTAACA CAGCAAGATC ATACCAGTTA ACCTTCCTGG TTAGAAGACC
TGAGCCTCCT GACTTCGGT CACTGGATAC TCTCTGAGG GCTCATGATT TAAACTCTGT AGTCACTGCT GGCTTGGAAA
CCTCTAATC TCTCTGCCCTC TTGACAGTGT TCCCTCAAGG GAGTCCATTA GCCAGGACTA GGTACATGC CCCTGTGTTA
GCTGTGAGGG ACAAGGCAGA G

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SEQ ID NO:2109: (Length of Sequence = 329 Nucleotides)

TTTTCATGGC AGCCTGAGCA GACTAAGACA GCAGCTAACA CAGCAAGATC ATACCAGTTA ACCTTCCTGG TTAGAAGACC
 TGAGCCTCCT GACTTCGGT CACTGGATAC TCTCTGTTAG GCTCATGATT TAAACTCTGT AGTCACTGCT GGCTTGGAAA
 CCTCTAACTC TCTCTGCCTC TTGACAGTGT TCCCTCAAGG GAGTCCATTA GCCAGGACTA GGTTCATGTC CCTGTGTTA
 GCTGTGAGGG ACAAGGCAGA GAAATAACTG CCCAAGTTCA GCTTCCATA ATGTTTGGGG GATGCTATGA CTCAACTTTG
 ATCTATTTT

SEQ ID NO:2110: (Length of Sequence = 271 Nucleotides)

GGCTTGAGCA GACAGAACGG GGAAGACTCC ACTCTGTCCC GAGGGGCCAG CCGCAGTTCC CCCAGGGCCA CCTGCCCTG
 AGGTCCCTGT GTGGCCGCC TGGCTTGGCA GCCCTGCCCA CGCTGCCCCC GCAAACAATG GTGTGTGGT TTTTACAGCC
 CTTTTTAGGA ACCCAATATG GGCATAAATG TAACACCTGT AGCGGGGCA GATTCTCTGT ATGTCAGTT AACAAATTAT
 TTGTAATGTA TTTTTTTAGA AATCTTAAAA T

SEQ ID NO:2111: (Length of Sequence = 315 Nucleotides)

GGCTTGAGCA GACAGAACGG GGAAGACTCC ACTCTGTCCC GAGGGGCCAG CCGCAGTINC NCCCAGGGCC ACCCTGCCCT
 GAGGTCCCTG TGTGGCCGCC CTGGCTTGGC AGCCCTGCCC AGCTGCCCCC CGCAAACAAT GGTGTGTGCG TTTTACAGC
 CCTTTTTAGG AACCAATAT GGCATAAAT GTAACACCTG TAGCGGGGCG AGATTCTCTG TATGTCAGT TAACAAATTA
 TTTGTAATGT ATTTTTTTAG AATCTTAAA ATTGCCTTGG CACTGAAGTA TTTTCATAGC TGTATTATC TCITT

SEQ ID NO:2112: (Length of Sequence = 275 Nucleotides)

GCAAGANAGA CCAAAACCTA ACCTGAGTTA CAAGAAACAA GACAGTAATG GCTATAAAGG GAGTGACCAG GAGCAACTGG
 GACACTCCTT TACCTCCCAT ATCCAATGTA TGINTTTAC AGAAAAACAA CAAAATTAC AAATTCACAA AATACACAG
 CTAGAATTAC AAAATCCATT CATCCAAGGG TGGTAGAAGG CAGGATGNA AGGTGGAAGG GTAAATNGCA CAGGGAGAAA
 AACAAAGTGT TCCAATCAGT CCAGGCACAG GGACT

SEQ ID NO:2113: (Length of Sequence = 227 Nucleotides)

GGCGCATCAG TGGGGGGTGC TGTCAAAATT AGTGAAATCA GATACAGTTG ATGGGCAGGG AGGGTGGGT AAGAGACAAC
 TCCAGTGCAG TGCCAGGTGG GCAGGCTCCC ACTGTTCCT TGAGACGCTC CTCCCCACTC AGGTGGGGAC AGGGACACA
 CTCGCAGGGC AGGGCATTCT GGAGGTGTGG GTACAGGTGA GGGGAAATGG GAGGCACAGC CAGGAGT

SEQ ID NO:2114: (Length of Sequence = 339 Nucleotides)

GGCGCATCAG TGGGGGGTGC TGTCAAAATT AGTGAAATCA GATACAGTTG ATGGGCAGGG AGGGTGGGT AAGAGACAAC
 TCCAGTGCAG TGCCAGGTGG GCAGGCTCCC ACTGTTCCT TGAGACGCTC CTCCCCACTC AGGTGGGGAC AGGGACACA
 CTCGCAGGGC AGGGCATTCT GGAGGTGTGG GTACAGGTGA GGGGAAATGG GAGGCACAGC CAGGAGTGG GCAGGAGGGA
 AGGCCAGTTC GTNGGCAGGC TGAGGAGGA ATATNACCCC CCTCAAGTCC CCAAGTGGC AGGCAAGTTA AGGGGCCCTG
 GATGAGGTGG CCCCTCATG

SEQ ID NO:2115: (Length of Sequence = 262 Nucleotides)

TGGAACACAA AATTCCCTGT NITAACATG TACATTCGGG GCCTAGCTGC CCTTGAGGAT GTCCTAGTTA CACCTCTCT
 GATACCTGTG GAGTTTAAGC ACCATTCTTA CCGCTGTGTC CCTTNGGAGG GGGTGCAGTG GAAGCTCTTA AAGGGGAATG
 CTGCTCTGC CTCGTGGCT TTTGTGTGG GAAAGGGAGT TNGGATNGA GGATTTAGAT TTNAGGTCAI GATGTCAGAG
 CACACCAGGA ACTCCAAGG CT

SEQ ID NO:2116: (Length of Sequence = 153 Nucleotides)

AAGAAGCGAA GAGGATTGCT GAGCTGGAGC AGCGCAANAC ACGGTGCTGG TGACAGAACT CAAAGCCAAG CTCCATGAGG
AGAAGATGAA GGAGCTGCAG GCTGTGAGGG AGAACCTTAT CAAGCAGCAC GNGCAGGAAA TGTCAAGGAC GGT

SEQ ID NO:2117: (Length of Sequence = 231 Nucleotides)

GAATATAATG TGTATCTNCA AGGNTCGATC CACCCTINCC CATCCTNTGG AGCTCAGAGA TTCTTGGGAG CTGAAGGTCT
TCTTAATGTC AGATCAGCAA CCCAATCTC AGGCAGCTCG GATTCGCTGC TCTCGATCTN CCGCTGGCCA ATGTAAAACC
AGACGCAGGC GACCCAGTGC GCGACAGGGC GAACACGGCC ATGAGCAGTG TCAGCACCAC GCGCTGTAC T

SEQ ID NO:2118: (Length of Sequence = 309 Nucleotides)

CGGGAAAGAA CAAATTGGAA TGGTGGGGGA TATGGGTGTG TGGTGGGGGC GGGGCAGGAG GTCCTCCGGG GTCCAGCATG
GGTCGGGAGT GGGAGCAGGA CAGAAGGTGG CCACGTCACA GGCGACTGAT GCTCAGCTCA AGGGGAGTGT GAAGAGGTTG
GCAAAGAGCT GGGGAGCCGG GCAGAGGGAC AACACTGACT NAGGACATTN CAGTTGGGAA TCAGAAAAAA AGGGGCAGCT
CAGGGGCATC TGATCTGCCT CATTTTGGAA AAAGAAACAG AGTAATGTAC AAAATTCTGG ATATCTTCT

SEQ ID NO:2119: (Length of Sequence = 308 Nucleotides)

GGTAATCGTT GAAGATTACC AAAGGTTTAT TTGGAATGAC ACAGCACTGA AAACATAATT GTTACAGATG ATTTGTGGAT
ACAGCATACA CCATCTAATT TACTTTAGAA CAATCTGTGA AGATGAGTTG CATAAATAGA AAGAGGTGGA AATATAGAGG
AGCTGTTTTT ATAGTGTCTT TTTGGGGTGA GATGAATATG CCCCATCTTT CTACCCAATC TCATAAAGGC AGAAGAGAAG
ACTGCTTAGC TGCCCATCCC AACTAGCCTA CCTCCAGCCA CAGCGGCTGG ACAGCTAGAT AAATCAGG

SEQ ID NO:2120: (Length of Sequence = 237 Nucleotides)

CCGCTCTCCT GACGGGAGCC CACTAGGGGG TCCTCTTTCA TCTTTGGTGT GGCCTTACCT CCCACCAAAG AGATCCGAGG
CTTACTCTTC TCTCTCTGG ACCAGCATGA CCCAGGAGTC CTTCCAGGAG AGCTCTGTGA AGGAGCTGAG GCGGCTGGAG
GACCAGCTGG CCGGCCCTGA GCAGGAGCTG GCGGCTCTGG CACTGAAGCA GAGCTCGGTG GCGGAAGAAG TGGGCCT

SEQ ID NO:2121: (Length of Sequence = 224 Nucleotides)

GCGGTCAGAG GCTGAGGCCA GAGAGGTAGC AGCGGAACIN ACAGGGAGGC CAGGGGCAGA GCTGACCCTG GAGAGGGATC
CTNATGTCCT AGACACATGG TTTTNTCTG CCGTGTGCC CTTTNTGCC CTGGGCTGGC CCCAAGAGAC CCCAGACCTT
GCTCGTTTCT ACCCCCTGIN ANTTTGGAA ACGGGCAGCG ACCTTCTGCT GTTCTGGGTG GGCC

SEQ ID NO:2122: (Length of Sequence = 202 Nucleotides)

CAGCTGCAGC TTCCAACCAA GAAAACCTCA AAGCATTAGG GAAGGAGCAG GTGTGGGGCT GGGGTGGGA GAATCCCTA
AGCTCCAGGG CCCAGGGTCT AACCTGAGAG GTGGGGCTG CAGGAAGCTG GGGGAGGCTC CCGGGGCTG GGAAGAGGA
GCCTGCCCC AGCAGAAACA GCAGGTCTCA GCGGCTACAT GT

SEQ ID NO:2123: (Length of Sequence = 359 Nucleotides)

ATTCTCTCT GTTCTCTGA TGTGTAGGA AATTGAAGA ATGACTCTGA TAAAAATCTA AAAGAGAAAC ATCGAATCCT
AAGTGGCTGT GTGACCCTAA AACCTTACTC CGTCTCTTG AACCTCAGAT TTCTCAGGCG TTGGCACATA GCAAGCATTT
CATACTCAGA AGCTGGTACT ATTACTGTG TGTTTTGTG GGGGAGGTTT GTTGTGTTG TTGGAGACA GGATCTGGCT

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TGTGTGCCCT GGCTGGAGTG AAGTGGCGCC ATCATAGCTC ACTGCAGCNT CGCCCTCCTG GGCTCCAGCG ATCCTCCCGC
CTCAGTCTCC CGAGTAGCTG GGACCACCTG CGGATGCCG

SEQ ID NO:2124: (Length of Sequence = 233 Nucleotides)

GAAACGCCGT GCATCTCTTG TCIGTTGGCA GCGAGCACAT CGTNTGGAGA CACGAGTTTC TAAGCAGCTG GCACGAGGGC
TGCTGACGGC ATGGGTCGTG CTTGAGGGTG GCAATACCTC TTAGGAACCT AGGGCAGGAA GCAATACTTC AGCATTGAAT
GTGTGTAAAT AGTTGCTTTG AGTTGCAATT GCTATTINCT TCTCAGTCCC AGCTCAGATC GAATTATATA TCC

SEQ ID NO:2125: (Length of Sequence = 241 Nucleotides)

GCCATGGCTT TTGTCAGGT TCAGGGGGG TGAGGGGGTG CTCCTCCCTT CCCCCAGGC ACTGACACAT TGAAAGGAAG
CAGAGCAACA ATGACACAGC ACGGATGTGG GAAAGGGGAT CCCCCACGCG GGCAGGATGG TCCATCTCAC CGGGGTCTCA
CCAGGACTCC CCGCTCCAC CCAGGGCCAG CACGAGCACC TCCCGTTTC TCCCAGTGC AGAGCGTGGG GTGACAGGAG
T

SEQ ID NO:2126: (Length of Sequence = 275 Nucleotides)

GTGTGCCCTC TTGCTGTGTC TTAATTGATA AGGAGTTGTA TCCTCCACCC TGCAATTCAA TACTGCCGGT TAGGACCTAA
GTAGAAGAGC AGTAAAGGCT GATTGACACA CAGGGGGATG GAGTTGGTCC TTGTCCATTC TCTCACCCTT GCTGTGCATG
TATCAATCCT TATCCAGAA GGTACTATTT AGACTGTATA GACTGATTTA GATTACATAC TTTAGAGGAT TAAGGAAACC
ATAGAGTTTG GGCCTTGGAA CTGTTACTGC CTTGT

SEQ ID NO:2127: (Length of Sequence = 296 Nucleotides)

TTCAGCCTTA TCGAAACACA TGAAGCAAAA CCATTGAAAC TGTATGTGTA CAACACAGAC ACTGATAACT GTCGAGAAGT
GATTATTACA CCAAATTCG CATGGGGTGG AGAAGGCAGC CTAGGATGTG GCATTGGATA TGGTTATTTG CATCGAATAC
CTACAGCCCC ATTTGAGGAA GGAAAGAAAA TTINTCTTCC AGGACAAATG GCTGGTACAC CTATTACACC TCTTAAAGAT
GGGTTTACAG AGGTCCAGCT GTCTCAGTT AATCCCCCGT CTTTGTACAC ACCAGG

SEQ ID NO:2128: (Length of Sequence = 322 Nucleotides)

GCATGGGAGG GAGGAAGAGA GGTTTGGGT GCGGTGGCAG GTGATATAGG GAAAGGGCTC ACGTTTCAGA ATCTGTGAAC
AATTCCATTT TTGATCAGAT AGCAGAACAA CTACACAGC AAAAAGCTAGA ACATCTCAGA CAGCAGCTCT TGGAGCAGCA
ACAGCCTCAA AAGGCCACTC CTCAGGATAG TCAGGAAGGA ACCTTTGGGT CAGAGCATTC AGCGTACCA TCACAAGGGA
GTAGTCAGCA GCATTTTCTT GAACCTGAAG TCAATTTGGG ATGATTCCAT AGATATTGAG CAACAGGATA TGGATATAGG
AT

SEQ ID NO:2129: (Length of Sequence = 222 Nucleotides)

TTTAGTGGGT CTGGGGTGGG CGCGCCCCC GGCTAACGGG GCGGGTCTCC TCCTCTAGGC GCAGGAGTGC GCGGTGCTCT
CCAGGCCTCC CCGCTAGGT GGAGCGTGAC ACCGCAAAGC ACACGTCCT ACGAGGGG GCGCCAGGCG GCACCAGCCC
CTCCCCAGAT GGAAGTGCCC GGCAGACAGC TGCCCAAGAC CTCACAGAAC AAAGATGGAC AT

SEQ ID NO:2130: (Length of Sequence = 191 Nucleotides)

GTTGGATGCT TTATTTCACT GTGGCGGGGA GGAACCTGG ACAGGGGGCG GCAGGCGGGG TGGGNGGCTG GCACTCAGGC
GGGACTAGG CAGGGGAAGG GCTGCCCCCA GGCCTGTGTA GGAGAAACTN AGGCCAGCCC TGGCGGAGAC CTAGCCAGC
GGGGTAAGGA GGGTGGGGGA AAATGGGTC T

SEQ ID NO:2131: (Length of Sequence = 280 Nucleotides)

CTGAGTCTTG TCGATCCCGA CCAGGAAGAG CAGCTCAGCC AGGAAGAGGT TGATGCACAG GTTCTTGTTG ATGGTGTTC
GGTGGTCTG CAGCCCCCGC AGAAGCAGAA GGTGGAGATG CAGATGGCCA AGCAGACCAG GGAGATCACA ATGCCACCC
AGGTGATGAC CGACAGCAGC AGCTCGTTGA TGCGGCCCTG GTAGATCTCA CGGTGAGCCA TGAGCACAGC GAAGTTGGTG
AGGTGGCTGC AGGCACACGT GGTATGGGTC TTGTGGACT

SEQ ID NO:2132: (Length of Sequence = 201 Nucleotides)

ATCCCCACAC CATGCGCTGC TCCTCCCATG GGGCTTTAGC TCCCTGACC ATCTGCTCAT GTAGCCTCTG ACTGGGCGCA
CAGTGGTGCA GGAGGAAGGA CCGGGAACCC TGTGTGGCTT TGGGCAAGCT GACAAACCG TCTGGAATC AGTTTCCCA
GCTGTGAAAT GGGGCCAGTC CCCATGCCCT GCTGTCTCC T

SEQ ID NO:2133: (Length of Sequence = 180 Nucleotides)

GATGAAATG TTGTGACCAG AGGCTTGCCA TTNCCTAACT CTATTTGCCA GAGGAGCAAT AGTTCTGTAT TCGCTAAIT
TGTGTTTACA GAGACTTTAA GGAACATGAC TGTGTGGAAAT AACAAGAATT AAAGGTATTT ATTTACTTNC TCTATATGAT
TGTAATATTA TACCCATACT

SEQ ID NO:2134: (Length of Sequence = 302 Nucleotides)

ATGAACAAAC GGGACTATAT GAACACTTCG GTACAGGAGC CCCCTCTTGA CTACTCCTTC AGAAGCATCC ACGTCATTCA
AGATCTGGTA AATGAGGAGC CAAGGACAGG ACTACGACCA CTGAAGCGTT CAAAGTCGGG GAAATCACTG ACCCAGTCCC
TGTGGCTGAA TAACAATGTT CTCAATGATC TGAGAGACTT CAACCAGGTG GCTTCACAGC TGTGTGAGCA CCCAGAGAAC
CTGGCCTGGT TCGACCTGTC CTTAATGAC CTGACTTCCA TTGACCCTGT CCTAACAACT TT

SEQ ID NO:2135: (Length of Sequence = 291 Nucleotides)

TCCTACCAAT CTGACATTC AATCAACCA CTTCTTGACA CATGTCATAG AAAAGTGACA TCTCTTCCC TTCAACCAAT
ATATCTCCA ACAACATCAA CCTCAACAGG TAGCTAGCAT TGCTTCTGT TGAAATTTAG AGCTGGAAGA AAGGATTTCA
CAATCTCTCT GTGGAGACCC AGGAATCCGT TACCTTCTGG GATTTTAGAG AGTGTGGAGA GAGATGAGCA GGCAGTGAGC
CGGGGACCAA CTCGATAAG AATATGAAGT CAGGAAGTGA GAGAGGAAAC G

SEQ ID NO:2136: (Length of Sequence = 282 Nucleotides)

GCTGTACAAG GTCTTTTCT TTGTTGTCAT GGTGTATTTT GTACATTTC GCATTTGCAT CATAAAAGG GGGGAGCAAC
AGCCATGGCT TTTGGTCAGG TTCAGGGGG CTGAGGGGGT GCTCCTCCCC TCCCCCAGG CACTGACACA TTGAAAGGAA
GCAGAGCAAC AATGACACAG CACGGATGTG GGAAAGGGGA TCCCCACGC GGGCAGGATG GTCCATCTCA CCGGGGTCTC
ACCGAGACTC CCCGCTCCA CCCAGGCCA GCACGAGCAC CT

SEQ ID NO:2137: (Length of Sequence = 322 Nucleotides)

GAATTGACAA CATATTGCCA AAATCTTAGT GGATTTTGCC AACACTATTC TGCTGATAGG AAAAAAGAAT CATTGAGCTA
CTTTCCAATT TAGCCACAAA ATAGGCTCTT TTTCTTCAT TACTACTTTA ACCAGTATGT TAATACTGAA AATAGGTATA
AAGAAATCAC AAATAACCTT CTCTGTTTG AAGGAAATTT AAAATAGCAC ACTTAAATG AAAGTNAAGG GAACTTAAT
TCACTACTGT AATTTTAA TGTCTGTATC ATGTAGTGTT TGCACAGTTT TAACCTTAGT TTACCATCTC TTACTCCTTA
GT

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SEQ ID NO:2138: (Length of Sequence = 305 Nucleotides)

ATGCTGAGTC GCAGTTCCGA TGTTCCTTATG CTTCATCAG CAAATCTCAA TTTGTCAAGA TTCATGACAG ATTCTTCCCC
AGCGTTTGGT TTAATGGAG GGACTTTATC TCCAGGCTG CATGACTCTT CGATGCTCAG GGCACATGCC CGACCAAGA
CAACCAGGTC CAAGAGCGAG TTTNCCCCGA GGCGGTGGC ACCATGTACC GAGGCACAGG CGGCTTCCCC ACAGGCGTAC
AGGCCGGGCA CAATCTGATC CTGGCCATTC ACGTGCCTCA GGACCTGCCC CTGTAGTTG GTGGG

SEQ ID NO:2139: (Length of Sequence = 263 Nucleotides)

CGGCCCCAG CAACAGCTTC AGCCCTCTCC ACCAAGCTTG CCATCAAGGA GATGTCACCA CTGCACTCCA GCCTGGGTGA
CAGAGTTAAG ACTCTCATGG GGACTACT GTTCAAAAGG CCCTGGCCAA ATAACTCCCA AATGAAACAC TCAACCCAG
GATGTTTTCA GCCCACTGTT AGTGAAGCTG GGTGCAGAAT GCAAAGCCTC TAAAAGGAGA GGATACAAAG TCAGGTGAGT
AGGGGCCATT GGCAATGCTC AGA

SEQ ID NO:2140: (Length of Sequence = 255 Nucleotides)

CTGCTTCANT CTGCGCCCT CAGCTGTGGC TTCCCGGCAT GCCCTGTGAC CCAAGCCGC AGGTACAGGA AAGAAGTTTG
TGCTGGGGGA CTCAAGACC CAGAGTTAA TTAACAGGAA CCAGGGCCAG GGGCCTTCAT CTAGAGGTCA GTGGAGTCTC
CAGGGCACTC ATCACTGTGG CTGGGAGACT ACAGTGTCTC GGCTGCGGAC TTGTGGAAGA AGAGGGGGAA GGATGGGAGA
AGGGGTGACT GGATG

SEQ ID NO:2141: (Length of Sequence = 355 Nucleotides)

TTTAATTAAA TACCACITCA TAATGTTAT TGCACCTAGT ACTTTTTTT TTTTAAATAA GACATGCCAT AAGTCGTGAA
GTTAACAAAA TATAAGCATC CGCACAGAAT ATATTCTAAG GTGACTTCAT TTACACCGCT TCTCAGAGAA ACACACAAGT
AACCTTTTGT CTGCCATCA GCCAGTGTG AACAGCTTT GGAATTCACA TGGAAGGCTG CCGGGCTGGT TCCCCAACAC
TNGCCTGATG GAGTCTGTGA TCCGNACCGT GCGTCAAAC TGGCTGGTTT CCACTAGAAA AGCAATGGAG AGTCAGCTCT
CCCTCTTTA CCCAGCGTTC AACTCCACAC TGCAA

SEQ ID NO:2142: (Length of Sequence = 391 Nucleotides)

CTGCTAAGTG CCATGAGACC TTAGCAGAGG CTGTGGGTGC CCCGCCCCAT TCCCTCCACT CACTCTTCCT TGCAGGTGAA
CCTGCCCTTC TTGTCTGAGG CCTTTCTCTG CCTCCAGAGC CTGCTTGGTC CTCAGGCTGT AAGTGCAGGC AGAGCTAATG
TCTCTCCATA GCTGCCCTCC ACCAGCCTGC TCCAGAGACA CCTGTGGCC AGCAGCCTGA AGCAGAATCC TTTACTCAGA
TTCAGCCGCA CAGATGCTCA CTGCAGAGAT CTCGAAGNC TGTGGTCATC CTTGAGCCCA TCTCAGATTT GTGTGGATAG
GGTGTAGAG AACATGGAAT CAGCTGGATA GAGTGGTTCA TGCTTGTAAT NCCAGCACTT TTGGGAGGCT T

SEQ ID NO:2143: (Length of Sequence = 326 Nucleotides)

GATGCAGAAC AGCTTCTTGC AGAAGCACT GCTCCGGCAT CCAGCGCTGC CTGGAGGCAG GAAGGAGAGG CAGGGCAGGA
CACGCTGGTC TGAGATGAGG GGGAGCCCCA CGGGCCCCAG GCAGGCTAGA GGAGGCACAG GCCCTGCCAC GGCCAACTCA
GGTCAGCCAG CTTGAGGCTG TGGCTCCAA AGGGTCTGGG CGCACCCCC AGGTGCGAGG TTNITGAGGC CAGCCAACTT
GCAGAGCACT CGCGCGTGG GTGGGCTGAG TGGAGGTGCC TGGGAAGCTG CCTAAATTCA GAAGCCTCCA CTGCCATGG
AGACTG

SEQ ID NO:2144: (Length of Sequence = 357 Nucleotides)

GCACGGGGCC CCAGGAGCCC ATCAGTGACA GAGTGCTCCA TGATGATGTC CTCCACCCGG GTGATGTACA GCAGCGTCAN
AGCACCCCCA GGAAGTGGGA NAGCAGGATG CCCAGGAGGA TGCCCGCCAT GATGGTGTAG TTGTCCATGA ACCAGATGAT

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CACGGCGTTG GTGCAGCCCC GCACGTAGAT GACATCCTGC AACTGAAAC GCTCCTTGTC GATAGTTTTN TAGCCACACA
TGGTGTGAC AACTTCTGTC GTGTTCTGA TGCAGCAGGT GTAGGGCACC CCACAGGCCA GGGGTCCAGG GGCAGTGCAG
TCGTGCTACT GATTCTTGCT CCAATCTCGG TAGTCCT

SEQ ID NO:2145: (Length of Sequence = 420 Nucleotides)

CGCCAGGAGC TGCTAGCCAA AGCATTGGAG ACCCTACTGC TGAATGGAGT GCTAACCCCTG GTGCTAGAGG AGGATGGAAC
TGCACTGGAC AGTGAGGACT TCTTCCAGCT GCTGGAGGAT GACACGTGCC TGATGGTGT GCACTCTGGT CAGAGCTGGA
GCCCTACAAG GAGTGGAGTG CTGTCAATG GCTGGGACG GGAGAGGCC AAGCACAGCA AGGACATCGC CCGATTCAAC
TTTGACGTGT ACAAGCAAAA CCTTCGAGAC CTCTTTGGCA GCCTGAATGT CAAAGCCACA TTCTACGGG TCTACTCTAT
GAGTTGTGAC TTTCAAGGAC TTTGGCCCAA AGAAAGTACT CAGGGAGCTC CTTCGTTTGG ACCTCCACAC TTCTGCAAGG
CCTGGGCCAT ATGTTGCTGG

SEQ ID NO:2146: (Length of Sequence = 390 Nucleotides)

CCCAAATACT GTTCCCAA CTATGTCGGG CGGCCGAAGC ACATGCGGGT NATGGCTGGA GCCCTGGAGG GGGACCTCTT
CATCGGACCA AAAGCAGAGG AGCACCGGG GCTGCTGACC ATCCGCTACC CCATGGAGCA CGGCGTGGTG CGAGACTNGA
ACGACATGGA ACGCATCTNG CAGTACGCT ACTCCAAGGT TCAGCTGCAG ACCTTCTCGG AGGAGCATCC TGTGCTCCTC
ACGGAGGCCC CGCTCAACCC GAGTAAGAAC CGGGAGAAGG CGGCAGAGGT GTTCTTTGAG ACCTTCAACG TGCCGGCCCT
GTTTCTCTCC ATGCAGGCTG TTCTCAGTCT GTACGNAACA GGACGCAOGA CAGGAGTGGT TCTAGACTCA

SEQ ID NO:2147: (Length of Sequence = 219 Nucleotides)

TTTGTTGTTG GAGAGAACT GGTGTTCTGC CCGGCTCTGC TTGGTCACAG ACAGCTCCAG CAAGAGCAGT TGTAAAAAGT
GCCAAGCGTG TGTATCACTG TGACAAGCCG TTTGCTTACT GCCCTGTTCC CTTCNAGCCA AACCAGCTGA TGAAGAACTG
CTGCCAGNG GGTCTACAG CAGGTCACAA ATGACCTAGT TTCATTTTAA GCAGACAGA

SEQ ID NO:2148: (Length of Sequence = 353 Nucleotides)

GAAATCTTTA TTACAAAAT ATTTTGCAAG CCAAAAAGTT TAAGTTGCAA CTATATACAA AATGGGGCCT GTTTCCTTCC
CAGCAGTCTT AAAATAAACT CCTGAAACCA TGCTCCTTCC GCAGGTGGT TCGACCTCTT CCTTTTCTG GGGTTCAATA
CACAAGGTAT GTGGATTCTC CAGGTGCCA GGTAAAGCT AAAGCTATAC ATCTTCTCTG GCCTTATTCC CTTATTTCCT
CCTCCAAGAA TTAATAAATA AAATAAATG AAAATGGCAC CAAGAAAACA TTCTTTTAAA ATACTGAATG TGTGTGTGCA
TGCGTGTGCA CAGTATGTCC CTGTTCTCTG GGT

SEQ ID NO:2149: (Length of Sequence = 394 Nucleotides)

GGGAGACTT TGGGCTTNN TCATGACTGT TTGGGTCGAA GGTAGCTCAA GTGTGTGTGT GTGTGTGTGT GTGTGTGTGT
GTGTGTGTGT GTATGTGTGT AAAGTGCTAA GAACTGTGCA TTGACATCCA AACATTTCTT GTACAAAATT TCCCTAGCAA
AGCAAACCTG CTTTGACTTA ATTTATTTGT TAAATGTTGC ACTTTGTTTA TGTATGTTTT GTTTTTGGTG GGAATAAGG
AGAGAGAGGA CGACAAATTC TATTGAAGTA TTTATTTTGT GAAGATGGCA ATTTTGCAIT TGTTAAATA TTTTTCATTC
NNTTAATTTT GTTATCAGTG CCAGCCCAAN ATACCTGCTC TACCATTAAT TTGCGGGCCT GATAAAAAGG GTCC

SEQ ID NO:2150: (Length of Sequence = 200 Nucleotides)

ACCTCCCTGG GCCTCGGAGA CGCTGACAGC TGGGACGACA GCAGTCCGT CAGCAGCGGC ATCAGCGACA CCATAGACAA
CCTCAGCACT GATGACATCA ACACAGCTC CTCCATCAGC TCTATGCCA ACACACCTGC CTCCTCTOGA AAAAACCTGG
ATGTGCAGAC TGATGCTGAG AAGCACTCAC AGGTGGAGAG

SEQ ID NO:2151: (Length of Sequence = 369 Nucleotides)

GTGCGCCCCA GTCCTTCTGA AACCTGTNAT CACACTTCGG GCACTGTCCC CTCTACAGTC AATCTGTGTT TTCAGAAGTG
GCCCCAGGTT CACTCGTCTT ACAGCAGTCC TAAAGAGCG GCTGCCCTTT CCTAGGCTT CCTTGCTCTT NAGGGCTAAA
TTCCAGCCCT CCTACCCAG TGCCACTTGG GTAAAAATAC TCTGCTCTC TCACGTTTGC TAATAAGCCC GGGCTCOGAC
TACCACCGTT CGGGGAAGG GAGCCCCCTA CCGTCATTC TGGTTCGCT CCGGAAAC ATGTGCCGA CCTGACTGT
CGGCGGCAT CTTCCGGAA ATGCCGTTT TGTTCCTTC TAAGGTGT

SEQ ID NO:2152: (Length of Sequence = 312 Nucleotides)

TTCAACAACA AATTGTGGGA GAAACACACC TTCCAGCAA TAGAAATCT CTATAAGTG CATTTGCCT GCAACCATCT
CTTCCCATG CTGGCCCTG GGTCAAGATT TGAGGCACTG TTCCGAGGA GCCCTCAGG CCACCTGAGC TGGGAGAAGG
GAGGCATGAA GCCACCATG AGCTCCAGG TACTGGACAT ACCTCTCTA CCTGCCCTT CCTNTTGGC TCCAGGAGTG
CACTGCCTGA CTCCACTGC AGGTTGATCT GGAACGGC TNGCATGCT AGGGATGGT GAGAAGTAGG CG

SEQ ID NO:2153: (Length of Sequence = 325 Nucleotides)

CCCAGACCA GAATGTAAAT NAGGCCAAA TGGCCACTC CCAGGCTGAC ATAGAGACCG ACCCAGGTAT CTNTGACCT
GACGTGCAA CTGCACAGC ATCAGCAGAT GGTTCOCAG CTCAGAATCT GGAGTCCCG ACAATAATC GGGGCAAGAG
GACCGCAAG ATTAATACT TGAATGTGA AGAGAACAGC AGTGGGGAT CAGAGGCGG CCCCCTGGC TTGCAGGGAC
CTGGNGTCT GCACCACTC CAGTGACCAC TTCAGAACC ACCTNGGNC ACCCCCAAT GTGCTCTGC AGACGGCATT
GGCTT

SEQ ID NO:2154: (Length of Sequence = 326 Nucleotides)

ATCATTTAAT TAACATCTT AAATGAAACA CAGTTTCTT CATGTGCTC ACTCAGGCTT CAGGGCAGAG GGAATGGATT
TTTAGACATA TCAAAGACTC AAAAATTAA AGAAATATAT ATATGTATAT ATATACTTCT AACATTTTAT GGAATTA
AATCAGAGG TTTTGGTCTC TCATTACT CTAGGTCAAG CTCATTTACC CCAGAGGACA AAGAAGGGCT GCCTCTCTA
GACCTCCCT TCTCCTTGT CTNTGTCC ACCCAGCAG GAAACAAGCT CAGAAGGAT CTAACAGGAT AGAGTTTCCA
GTAAT

SEQ ID NO:2155: (Length of Sequence = 317 Nucleotides)

TGGATGAGGA GACCTGAAC ACACCTGCT ACTGNCAGCT GGAGCCAGG GCCTGTCACA TCCTGCTGGA CCAGCTGGC
ACCTACGTTT TCACGGGGA GTCTATTCC CGCTCAGCAG TCAAGCGCT CCAGCTGGC GTNTGCGCC CGCCCTCTG
CACCTCCCTG GAGTACAGC TCCGGTCTA CTGCTGGAG GACACGCTG TAGCACTGAA GGAGGTGCTG GAGCTGGAGC
GGACTCTGG CGGATACTG GTGGAGGAG CGAAACCGCT AATGTTCAAG GACAGTACC ACAACCTGC GGGCTCT

SEQ ID NO:2156: (Length of Sequence = 372 Nucleotides)

CTTCAGCTG GCAGCCAGT GGCCACCCA TGTCAGCAC TTTCAGTGG GACTCTTCAG TGGCAGCAAG GCCACCTGAG
GCCGTGNTC CCAGCCACT TCCTCTGG CACTGCCACC AGCTCACCG AGTGGCGGA TCTGGCTCA CTGCAGCTC
TGCTCCCGG GTTCAAGCAA TTNTCTGCC TCAGCTCCT GAGTAGCTG GACTATAGC GCGTCCGCC ATGCCAGCT
AATTTTGTG TTTTGTAGT AGACAGGATT TAACTATGTT GGCCAGGCTG GTCTTGATT CCTGACCTG TGATCCGTC
TCCTCAGGCT TCCAAAATG CTGGGATTAT AGGCATGAG CACCACAACC GG

SEQ ID NO:2157: (Length of Sequence = 351 Nucleotides)

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CTGGCTAACA TGGTGAAATC CCGTCTCTAC TAAAAGTACA AAAAATTAGC TGGGCGTGGT GGTGGGCACC TGTAGCCCCA
 GCTACTTGGG AGGCTGAGGC AGGAGAATGG CGTGAGGCAA CAGTGCAGCC TGGGCAACAG TGCACCTCCT CCATCTCTAC
 CAGCGTCCCC TCCAGTCTGC ACGGGGCAGT CCTCCITGGC TTGACCTCTC TGTACCCACA GCTGGGGGCC AGGCAGCCCC
 CCTCTATCCC TCCCAGCACC TACTACATCG NCCINACAT CCCTGATTCC TGTGTATTG GAAACTINTG CCAGAGATGG
 AGGTTCTCTC GGAGTATCTG GGAAGTGTGC C

SEQ ID NO:2158: (Length of Sequence = 280 Nucleotides)

CAGCTCCTGA GGACCGCTGC AGTGATGACA CAGGACTATT GCATCAGCAT CGTGCTACA GGAATCAGA GCTCAGCCAG
 GAGAGGTCCA AGAATGACAG AACCATGAGC ACTCCTACCA AAAGTCAGCT CTGCTCAGCC AAATCAACAA TTCAACCCAA
 CAGGNCAACT CCTAACACAT CCCATCCAGA CAGACATTAG AGGCGCACAG CAGATGAACC TCCTACTTAC ACTGTCCAAG
 GAAGCTGGAC TATCAATTCC CAGTAAAAGT GGGGAAAGG

SEQ ID NO:2159: (Length of Sequence = 342 Nucleotides)

CTTGTCGCTT TCTCCTACCA GATTGTGCAT GCTCCTGTG GGCAGAGCCT GTNCTGACTT GCTCCTGGGT CTCCAGCATC
 ACCCAGTCTG GAGCTGAGGA CCTGGGTACC TACAGATTTC CTTCACACT GTCAGAAATG AGATGAAGGA AGCCAGAGA
 AATCAAGTAC CCTCCACCAG GCAGAGCAAA GTCTGGGTG CCCAAATCC AGGGAAGGCA AGGGCTGGG GTACAAGCAG
 AGGATCTGAA GAGGTATATG AGAGTNGCCA GCACAGACCT GGCATAAGCT TGGTGCTCAG TGAAGGTTAC CTGATGTTC
 TGGCACCAG GGGTGATGCA GT

SEQ ID NO:2160: (Length of Sequence = 376 Nucleotides)

ATCTTAAGAC ACATATGGAA AACAATAGG TAGAATTAG TAACTACAA GAATATAAAT TGGAGCTAGA TGAAAAGGCA
 GTGCAGGCAG TAGAAAAAT AGAAGAAATC CATTTACAGG TTAGTTTTT AAATCAGGTA AGTTTATCTG TAATGTGCTT
 TCATTTATTT CACCGCAAAT TATATTTTGG ATATGTATAT ATTATGTTTC CTCTGCCCTT CTGTAGCAA TTTGCTTTGT
 AGAGTTCTAG AAAAAAATG GCATCTGTTT TTCCTTTTAA ATATTACAT TTCCATTATT ATTATAACAA AATCAATCTT
 TCAGAGTAAT GATTCTCACT GTGGAGTCAT TTGATGATTA AGATCCAGTT GGCATA

SEQ ID NO:2161: (Length of Sequence = 404 Nucleotides)

CCCTCCTTGG GTTCAACTG GACTCTATC AGGTCTACTT CCTGGCCCTG GCAGCTGATT GGCTTCAGGC CCCCTACCTC
 TATAAACTCT ACCAGCATTA CTACTCCTG GAAGGTCAAA TTGCCATCCT CTATGTCTGT GGCTTCGCT CTACAGTCTT
 CTTTGGCCTA GTGGCCTCCT CCCTTGTGGA TTGGCTGGGT CGCAAGAATT CTGTGTCTCT CTCTCCCTG ACTTACTCAC
 TATGCTGCTT AACCAAACTC TCTCAAGACT ACTTGTGCT GCTAGTGGG CGAGCACTTG GTGGGCTGTC CACAGCCTGG
 CTCTCTCAG CCTCGAGGN CTGGTATATC CATGAGCAG TGAACGGGC ATGACTTTCC CTGCTGAGTG GATCCAGCT
 AACC

SEQ ID NO:2162: (Length of Sequence = 339 Nucleotides)

CAGTGCCTTT TTGTAGCTTG GGATCTAATT TGTAAACCT TGCTACCTAT GAAAAGTGG AATGTAAAAG GGAAAAAGCA
 ACTTGGCAIT TACTAACTT AGGCTAACCA AAACCTCTG TAGAGATCCT TACTAGACAT GGGTGCAACA GCAAGCATCC
 CAGAGGACCC ACCACTGGG TATGTTTTAG GCCAATGGAG CAAATTCAA TTTGGCTAAA AGAAGAAGAA ACTCATTTAG
 TATGGCAATA ATATTGCGT TCGACACAAA GTGGCAAACC AACACATTG GCCTAAACAT GGTCTATAT GTTATAATGA
 TACTTTACAA TTAGACTTC

SEQ ID NO:2163: (Length of Sequence = 285 Nucleotides)

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CCCGCCACC TCCAGCAGGA GCAGCTCAGT TTGTGGCTCT GGGAGCTCCG CTTTTCGAAA CCCAAAAAGG CTGTGCATTT
GGAGGCCAAA CGCTCAGCAT GCGGCTGCCG AGTCTGGTTT TGTGGACAAA GCAAACTGTG GAATGGCTTC TCGGTGTCTG
TATAAAGGGA CAAACGGTTG CATTCAACCT TTGTACTATA ACACCGCTTC TGCAITCGCC ATATCCGTTT TTTAACCTTT
TTGTCTCCG GGAACCTCTC ATTCGATTAT NATGTCTCT GATGA

SEQ ID NO:2164: (Length of Sequence = 296 Nucleotides)

ATGTTTGTA ATCACTTCCT TTTCCTACAA TATTTCTAAT AAGAAAGCTT ATAACAGCAC TTTATTGACA CCCTGGGACC
CGGGGCAGGG TCAGCAAGAC TCCAGCTGG CATCAGACTG TGTCTGGCCT GCTGTGCGCA TCCCTGAGGG GTGCAGGACA
GAGCCCCATA GGCAGAGAG GCCTCCCTGG GACCAGAGGA GGATGCTGTG CAGCCAGGCC CATCCCCAGC ACTCGAGGCC
TAGGAGGAGA GGTGGGCTCT GGCAGCGGGT GTNAGGTGGC AGTGAGAAGC CAGGCC

SEQ ID NO:2165: (Length of Sequence = 310 Nucleotides)

GTTTTTTGTA TGTTTTTCAA ATAATGTTTT TCTGTGTGTG TTTTTTINCT TTTTTTGGAC AGGNTCTCAT TCCCATTCGC
CAGGGTGGAG TGCAGTGGTG CGATCTCAGC TCACTGCAGC CTGTACTTCC CAGGTCAGA TGATTCTNCC ATCTCAGCCT
CCCGAGTACC TGGGATTACA GGCACACACC ATCATGCCG GCTAATTTTT TGTATTTTTA GCAGAGACGG GGTTTTGCCA
TGTGACTCAG GCTGTCTCG AACTCCTGGG CTCAGAGAT CCGCTGCCT TGGCCTCCA AAGTGTGGG

SEQ ID NO:2166: (Length of Sequence = 361 Nucleotides)

GATGGAACT GGAAAAAAA TAATTGTAA GCAACAATTT TAGATTTTTT TATGGAGGAT AGAGACATTT GAATCAGATA
CCAAGAAATG TATAGTAATC ACTCACATAG AAAGATGTCT AAAATGGATT TTAAATGGGA TCGGGGAAAG CAAGGTGCTG
AACAACATGC TGTACATACT ACTTATAAAT CAAAGCAAAC CACTAGCAA CTGATGTGAG TACTAACACA GGTGGAAGTG
GGATTGTGC GGAGGGGAGA GGTAGTNAGG GTAGACTTAT TTGTACCATT TTNATTTTTG ATATTTCTTT TATATACAGA
TACATAAGTC TGTATATACA TGTATGTCCA ATTATCTCT T

SEQ ID NO:2167: (Length of Sequence = 325 Nucleotides)

TCCTGGGCTG TGCTCTGTTT GAAGGGGGCG CCCTGCTCCC CTCAGATCAG TCAGGAGGAA GATGACTAAG GGGAGGGATC
CTCTGGGTGA TGGCCTCTC CTCCTCAGGG ACCTCTGACT GCTCTGGGCC AAAGAATCTC TTGTTTCTTC TCCGAGCCCC
AGGCAGCGGT GATTCAGCCC TGCCCAACCT GATTCTNATG ACTGCGGATG CTGTGACGGA CCCAAGGGGC AAATAGGGTC
CCAGGTCCA GGGAGGGGCG CCTGCTGAGC ACTTCGGCCC CTCACCTGN CCAGCCCTG CCATGAGCTC TGGGCTGGGT
CTCG

SEQ ID NO:2168: (Length of Sequence = 348 Nucleotides)

GGAGAACCGT TCCGGAGGA AAGGCGAACT AGTGTGGGA TGGCCACCA CTGGGGGAGC CTCTGCAGG ATAAACAGCA
GCTAGAGGAG CTGGCACGC AGGCCGTGGA CCGGGCCCTG GCTGAGGAG TATTGCTGAG GACCTCACAG GAGCCCACTT
CCTCGAGGT GTGAGCTAT GCCCCATTCA CGCTCTTCCC CTCACTGGTC CCCAGTGCCC TGCTGGAGCA AGCCTATGCT
GTGCAGATGG ACTTCAACCT GCTAGTGGAT GCTGTGAGCC AGAACNGNTG CCTTCTGGA GCAAAATCTT TTNCAGCACC
ATCAAACAGG ATGACTTTTA CCGCTCGT

SEQ ID NO:2169: (Length of Sequence = 392 Nucleotides)

ATTTTGTGA GTTCCAGTTT GGGTGGCAGA AACTAAGACA CTGAGCTGAT GAGAGAACTT GTTGCTTTTC GCCCTGCGCA
TTTATTTAT TATTTATTTA TTTATTTTGT TATTTTGTAGT AGAGACAGAG TTTCACCATG TTGGCCAGGC TGGTCTCAA
CTCCTGACCT CAATGATCC ACCCACTCG GCTCCCAA GTGCTGGGAT TACAAGTGTG AGCCACCATG CCCGCCACC

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TGTTGCATCT TTAACAGCTG TGTTTGAAA AGGGTGAGGA ATTGATTCAT CAATATTCAA TACTAAGCTG CAAAATCAGG
AATGCAGCCA ATTGGTTTAA TTGATCAAGG CTTATAAACT CTTAAGGGAC TCTAGTGAAC TGATACAAAC TA

SEQ ID NO:2170: (Length of Sequence = 273 Nucleotides)

GTGTGTGTG ATGCTGTGTG TGTTGCTTTC TGTTGTGTTT TCTTGCAATG GTCAGGTCCC ACTCTGAACCT CCGGGGGGCA
CCAACCTGAT GCCAGTAGGA TTGCCCTTGT ATAGGGTGTC TGACAACCCC TGTTGAGGGT CTCACCCCTGT TGGGTGGCAC
ATGGAATAGG ACCCAATTTAA TGAAGCACTT TNCCTTGG TGGAGGTAGT GTGCTTINCT GGGGAAAAC CCACTTGTCT
GGGCTGCTG GATTCTCTAG AACTACCAGG AGG

SEQ ID NO:2171: (Length of Sequence = 357 Nucleotides)

GTGATGTACC CCAGCACTAG GGAATGATGT GAGTAAGACC TAATCCCTGC TCTCAGGGAG CTTATAGCCT ATGGCAGCAG
CAACACTAGT AAAAATTTAC TACTTTGATA GGTGCACATC TTCTTTGGT CAGCAATTTT CTCAAAACCA CTGTAACATT
TTACTAAAT GCTAAGCTTT GATTGTTTTT CAACTACTTC TTGAGAGTTT CTGCATGTAT GATAAGGGCA AGACATTACA
CTGAGGTATT GATGCTGATG AGCAGCAAGG CTCACTGGCT GGTGAAGGGA TACTGATTAG CACACCAATG TGCTGCTCTT
GAACACACAC CTCCACAAA TTACAAATTA TCTTCCA

SEQ ID NO:2172: (Length of Sequence = 381 Nucleotides)

GAAGAAGGCC CATGGAGCTA AGGCCTCAGA ACACCAAAGT CTGGACTGTC TGAGGGCACA TGCTAATAAC AGGAGGCTGG
CAAAGTGCC AGCTCCCATG CCTTTGCAIG CATTTINCTT TACCTCTGC TGCTGGGAA CATCCTTCCA GGAGCAATCG
AGTCAACAGC ACCACAGACA CTGCTATTCC GTTGAGAAAA GTTTTATATG GAAACACATA CTGATCATGA ACACAATAA
CAGGGAGGGA AGCTCGGGCT CAGCCAGGAA ACCTGCCACA AGGAAGATGT TTGGAATAT CCAGGAGTAG TGTCAAACAC
TAACACCATA TTTACAAGTC TAATTTGGAA CTTGGGCCCT TTTAAGTGC AGGAGGAAGT T

SEQ ID NO:2173: (Length of Sequence = 351 Nucleotides)

GAAGTTCCGG GAGCGCTGA AGGAGCTCGT GGTCCCCAAG CACGTCAATG ATGTTGTGGA CGAGGAGCTG AGCAAGCTGG
GCTGCTGGA CAACCACTCC TCGGAGTTCA ATGTACCCG CAACTACCTA GACTGGCTCA GTTCCATCCC TTGGGGCAAG
TACAGCAACG AGAACCTGGA CCTNGCGCGG GCACAGGCAG TGCTGGAGGA AGACCACTAC GGCATNGAGG ACGTCAAGAA
ACGCATCTG GAGTTCAATG CCGTTAGCCA GCTCCGCGGC TCCACCCAGG GCAAGATCCT CTGCTTCTAT GGGCCCCCT
GGCGTGGGTA AGACCAGCAT TGCTCTGGTC C

SEQ ID NO:2174: (Length of Sequence = 308 Nucleotides)

TCATTAAATA GCTTCTATGC CACACTCTGA TTAAGCCGAC TGAGGTCCCT GGGATCTGGG TCACTGGACC GAGCTGCTCG
CTCGTGGCT CCACTGCCAG GTCCGGGCGC GCTCCCCACA GCGTCAATG CTGGCCGAGA CAGGGCTGA CATCCGCCG
CTGCAGTCCC GGGGTGGCG TCACCGTTCC ACGGCCAGNG ACTCTNCTG CTGCTCCGGG AAGGCGATGT CGAAGATCTC
CCGGTAGINT TCACGAAGG TAACCTCCAG GGCCCTCGGT GATGAAGGCT TCAGGTCTG AGAAGTCC

SEQ ID NO:2175: (Length of Sequence = 403 Nucleotides)

CITGCCCAAG GGCTGAGCT GGTGGAGGCA GAGCAGGAGT TGGATCCAGG CCTGTNTGAG GCATCTGCC ACCTCCATCC
AGACCTGGAG CAATCCCTGA GAAGGGTGGC TACCACCAGA GATGTGGCAG CTCTGGTCTC AGGAAGCATA GCCGGAGGAT
GTCCACAGCA ACCAAACAGC CATTATCAG TAAGGAGCCA GAGTNAAGGC TGCTAGTTCA GCCCCCGAA GGTGTCCAG
GGGACGCCAG TNCAGAACTC AGCAGGAGCT CAGTTCCAAC TGAGCCTGAT TTCACTCCAG TGTCCACAAG GGACATCTG

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ACCTGGAGGT CCTCGGCTAC TCACCTGGG GGCINCTGTC ACAGCCCAGG AGCTAGCCCA GGGCTGCCTC TAAATGGTTC
CCG

SEQ ID NO:2176: (Length of Sequence = 399 Nucleotides)

AGGCAACTAT TGAGGGAAGA GGCAGAAAAA GGAAAAAGGA ATGTACGTAA GGCAATTTTN CTTAAAAGTA CAATAAGCTT
AATAGTGTIT TAGGAAGACA AGATAAAAAT TACTCAAGGC TAGCTTGGTT CTCCTGAAT AAAACAAAG GACTAAATAC
TGAGCTCCIT CTGTGTGGAT CTAATAATCA ATGCCTTGGT CGCTATATTG GTAATCTCTG GGGTAGTCAT CTTGGTACTC
GCCATGATAC TCATCAGGT ATTCTGCCIG ATAATCACIA TCACTGATTT CCGAACCATT TGTTCCTGTT CCTTGGCTTC
CGTGTGAAT GACAGGTTCT GTAGGAGCAG CACAGTATTT GGGATCATA TACTTGCCGN CCAAGGCCAT ACAAACTCA

SEQ ID NO:2177: (Length of Sequence = 302 Nucleotides)

GGTTTTATA AAAATCAGAA TTTTCAAAT GCATTTGTC TTTTCAGATG CATTGGTCAC ATTCAATTAT TCCATATCAA
AAAATGTCAT TTGTTAATGT CACACAAATC TCATTGAAA GGTCTTCAAG TATTGTGAAG TTGTCCAGGT CACAAAGATG
AATGCTAGTT TTTCAAAATT CTACTTTTAA CTTGAATGCT CAAATCTTAT AATTGGTAAC CCGTTCAGTT TTTCTTAGT
TGATAGGCIT ACTGCTTAA TGTGTGAGA ATACTTGTCT GTGAAACATC CAAATCTGGA AG

SEQ ID NO:2178: (Length of Sequence = 343 Nucleotides)

GGTTTCATC TCCTTGCCCA GGCTGGAGGA GCAATGTAT GATCTTGGCT CACTGCAACC TTCTCCCTTC CAGGCTCAAT
CAATTCTCT GCCTCAGCT CCCGAGCAGC TGGGACTACA GTTGCCTGCC ACCATGCGCA NTAGGTTTTT TTTTGTAGA
GACAGGGTTT TGCCATGTTG CCCAGGTTGG TCTCCAATC CTGAGCTCAA GTNATCTGCC TGANGTGTG GGATTATAGG
TGTNAGCCAC CACATCCAGC CTCCTTTTAA TGTTTTGTG ATTATTTATA GTGAAAGATT TAAATTCCTT TCTATTTCTT
TGTGGTATAT ATTCTATAGG CTA

SEQ ID NO:2179: (Length of Sequence = 377 Nucleotides)

AGATCATCAG GAATTAGATT CTCATAAGGA ACACACAACC TAGACCCCTC AGAGGTGCAG TTCACAGTAG GGTTCATGCT
CCTATGAGAA CTAATGTTG CAGCTGATCT GACAGGAGGC AGAGCTCAGC TGGTAATGCT CACTCACCTG CTGCTCACCT
CTTCTGTGT AGCTCGGCTC CTAATAGACC TGTATGTGTC CATGGTCTGC GAGTTGGGGA CCCTGCAGG AAGTCTTGTA
AATGCATGTC AGGAAACTTA CTGTTTACAG CCACATAGTT TGTAGTAGTA AGGAAACTAG GACAATTCAA ATATTATCA
NGGGAAAAAC TGGGATAAAT TGTGGGTCAA TTTATATGT TTCATACAGG AAAAAAG

SEQ ID NO:2180: (Length of Sequence = 195 Nucleotides)

GATATTTGCT TTTCTCAGAA CCATAATCGA TACAAGATGC AGTGACCAAT TCAITCCTTA AAACACCTGG GCTCCTTAAG
CGGCTAGAAG ACACAAGTTA CATCCAGCCC ATCAGGGAGC CAGAGGGNGA GGGGTCCCCA GCCAAGCTCT GNCAGGCCT
GCCATGGGGC AGNCCCTGAC CGTNCAGCCA GAGGT

SEQ ID NO:2181: (Length of Sequence = 244 Nucleotides)

TGGGTGGGA ACGGGCCCGG AGCGGAGGA ACGTGACTCC CCAGAGGGAA GATGGGCATC ATACTGGGCC CAGAGCTGGG
AAGGAGTTGC TGCCAGACA GGGTGGGCTT GGAATCCCTT CGCCCTTACC CCCAGTGGTT GTGGCTGTAG CCTAAGCCT
GGAGAGCAGG ACCGGCCCGG GGTGTTNGN AGGCTGCCAG GTGCCTCCA GAGCTCCCA GGGCCCCAC CTGCAAGTNC
CAGC

SEQ ID NO:2182: (Length of Sequence = 287 Nucleotides)

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CTCCTTGAGT CTGTTGACAC GTCACATGGT CAAAGTCTCC TCATTTCAGC CAGTCTCAAC ACAAACACC CAACAGGGAT
GCACTCAACT TGTTGGITCC ATGTGGAAC AGGTGGCAGG GCGAGAGGA AAGTAGTAGA AGGGGGCTAT GGTGTGTCTG
CAITTCAGTCC CCTCACATAA AGCCACATGG ATCTAGGGGG GTATCCAAGA GCTCTGGTGG GGTCCGTGTT GCACCTAAGA
CATTATAGGT CAGAGCAAGT TGCTCAGAGG GTTCCAGGCA GGGGGCT

SEQ ID NO:2183: (Length of Sequence = 389 Nucleotides)

GATCCAGAGA GGGCTCCAGG TGGAGTCCCT TTTCTGTCAT AAGGGGCTGT GACCGAAGCA CAGAGGGGAA AAAAAAAGT
GGTGGGAGCC TCCTCTGGTT TCACCTGAAG AGGGAGGTGG AAGGGCCTGA AAATTAGATT TTNTTTATAA ATAATAGATA
TTATAGGTAT ATTINCATAT TTTTACATAA TGATGCCAAC CACAAACAAT GGACCATAAA GCACTGACCT CAGAATGATC
AATGCAAAA TGTTTAAACC CTGGAAGCT TTTGCTTAGG AGGGCGGATA TTCTGTGTG ATGTTATTCT ATAGCCATAA
ACTTCCCTGA ATTINCTGCT AATGTATCCA AGTCCAGGGA AGTCACCTAA AACTCTTCAA ATGCAGCTT

SEQ ID NO:2184: (Length of Sequence = 383 Nucleotides)

GCAAGAGAAG CGGTTTGGGT CTCTGAAGGA AAGGCCAAAA CCCAGAACAA AGAAGAATCC TATGACTTCT CCAAATCCTA
TGAATATAAG TCAAACCCCT CTGCCGTTGC TGGTAATGAA ACTCTGGGG CATCTACCAA AGGTTATCCT CCTCCTGTG
CAGCAAAACC TACCTTTGGG CGGTCTATAC TGAAGCCCTC CACTCCCATC CCTCCTCAAG AGGGTGAGGA GGTGGGAGAG
AGCAGTGAGG AGCAAGATAA TGCTCCCAA TCAATCTGG GGCAAGTCA AAATATTGA GGAAGATGEN TCCACAAGGC
CAGGTTACAG AGGAATGCAA GGAGCTTCCA GGAAGCACA GAATTCCAAG TTTCGGAAA TTT

SEQ ID NO:2185: (Length of Sequence = 359 Nucleotides)

CTTTAATTCA CATCAGCA GTCAAGGAAG TGGGGAAGG GGAAGAAAT CAAGTGGCAG ATATTTACAT CTAAAATTCA
CAITACTTGT TGATTTTGA ACATGCTACC ACAATATATA CAGTAAATA CCTCTGGGA CAATGGTACA AATTTTGTIT
CCTTTAACTT TGCTTTTCTG GTACAGGTAA GATCATTTTT AAATCACTTT TTINCTTTAA ACATGAATAC ACAAAGAAA
TGGTTAGAAG TTTCTTGT TTAATAAGC ACAGAATGCG GGAGGTTAAA AACACATTTA TAGTGCTGAA TACCAATTGG
NCATCACACT CTATACATTT TTTGCTCAA TTCTGTAC

SEQ ID NO:2186: (Length of Sequence = 337 Nucleotides)

ATAGTTATAC TCAGTGAAAT TAACAAGACC CAAAGGTGGT ATTGTCTAGG AATAAAGGG ATAATTTTGG TTGTTACAA
AAGTAACTTG TCTAGCACCA CACATCAGAA AACACAAAA ATAGCACACT CTAGTTCTAA ACAGCTATGT CTAAAATAGA
TTATATAGTA AAACCGGAT TATACAGCAT ATTGTGGATT TGATAAACAG ATAAATATTT GCNCTGAGTA GGTGTTTAT
AATATAACAT TINCTTATCT ATACAGATG AAAGCCAAAA AGTTAACTGT ATAGAGATGT GCAGAACAAC ATTAAATATT
ATGGCTCAAA AGCAGGG

SEQ ID NO:2187: (Length of Sequence = 329 Nucleotides)

GCATTINTCA GCACAGATAG AGCCCTGTCC CTCCACCTAG TGCCCACTCC ATGACTGTTA ATAATAACAA TAATAATAAA
ACTACTGGCC AAGCACGGTG GCTCATGCCT GTAATCCCAT CACTTTGGGA GGTCGAGGTG GGCAGATCAC CTGGCCCAAC
GCCACGGCT CTAGCTCCGG GCTCCCTGAG GTCCCACTG CCTTNNCCGG TCCCACGGCT CCCACGNTGC CACCTGTCC
TGACTGCCA CCTGGTCTTG TGGGCAGACT GCTGATCGAG TTCACCTCAC CCATGCCCT GGAGGCGGGT GCAGAGGGAG
AACCAGGC

SEQ ID NO:2188: (Length of Sequence = 335 Nucleotides)

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GGCCCCAGCT CCTCTTCCTG CCTCTNNAT GGCTTGGGCT GGAGTGGGCT CTCTGGACCT GACCGGGGGT CAGACTGTGG
GTCCCTGGGT CTCTGCCCCA CTCTNACCGG GCTTCTCTCC TCCACGCTTA GGGTCTGTCC CGGGTACTCA GTCAGCCAG
TGGGATCTTA CCCACTTCCC TGCAAGGTGC AACTGCCCCA GGCTCAGGCT GCCCAGCGGC TCTTCTTGA CAGTAAGAGC
AGGGCTGGGC GCCTCTTTC TGGCCCGGAA GCGCAGGGG CCCCTCTCC AGAGCCTNGG CGCAAGGAAC ACAAGGCTGC
CGCTGCTCTT CCAGG

SEQ ID NO:2189: (Length of Sequence = 366 Nucleotides)

AAC TGGTGA TCAGATGAN TTCTACTTTT CTNATGAAA CCTGGAGAAG GACGCCTTT TGCTAAAACA CGTGAGGAGG
AAC AAGCTGG GATATGTGAG CNTTAAGCTA CTCACATCCT TCAAAAAGGT GAAACATCTT ACACGGGACT GGAGAACCAC
AGCACATGCT TTGAAGTATT CAGTGGTCTT TGAGTTGAAT GAGGACCACC GGAAGGTGAG GGAGGACCAC CCCCGTCCCA
CTGTTCCTCA ACGAGAACCT CCCAGCAAG ATGCTCTGG TCTATGATCT CTACTTGTCT CTAAGCTGT GGGCTCTGGC
CACCCCCAG AAGGAATGGA AGGGTGCAAG AGAAGGTGAT GGAACA

SEQ ID NO:2190: (Length of Sequence = 333 Nucleotides)

CTGGATCCA GCCTAGGCAA CAGAGTGAG ACCTATCTC AAAACAAACA AAACAGCCAG GCACGGTGGC TCATGCCTGT
AATCCAGCA CTTTGGGAGG TCGAGGTGGG GGGATCAGCT GAGGTCCGA GTTCGAGACC AGACTGACCA ACATGAGAA
AGCCATCTC TACTAAAAAT ACAATATTAG GGGGCGTGGT GGTGCATGCC TGTAATCCCA GCTATTTTGGG AGGCTGAGGC
AGGAGAATCG CTGAACCTG GGAGGCGGAG GTTCAGTGA GCCATGATTG AGCCATTGCA CTACAGCTG GCAAGAGCA
AAACTCCGTC TTC

SEQ ID NO:2191: (Length of Sequence = 284 Nucleotides)

AAGTTTATAA AAGTTTGATT ACTGGAAAAG TTGATCTAA TTCAGAAATT TCAGGCCAAA TGAAACAGCC CCTTCAAGCA
AACATGCCCT CAATCTCTCG AGGCAGGACA ATGATTGATA TTCCAGNGT TCGAAATAGC TCCTCAAGTA CAAGTCTGT
TTCTAAAAAA GGCCACCCC TTAAGACTCC AGCCTCCAAA AGCCCTAGTG AAGTCAAAC AGCCACCANT TCTCCTAGAG
GAGCCAAGCC ATCTGTGAAA TCAGAATTAA GCCCTGTGTC CAGG

SEQ ID NO:2192: (Length of Sequence = 260 Nucleotides)

ATGACGACGG CTACCTCGAG GTCATTGGCT TCACCATGAC GINGTTGGCC GCGCTGCAGG TGGGCGGACA CGGCGAGCGG
CTGACGAGT GTGCGAGGT GGTGCTCACC ACATCCAAGG CCATCCCGGT GCAGGTGGAT GGCGAGCCCT GCAAGCTTTC
AGCCTCACGC ATCGCATCG CCCTGCGCAA CCAGGNCACC ATGGTGAGA AGGCCAAGNG GCGGAGCGCC NTCCCTTTC
CACAGCGACC AGCAGCCGGT

SEQ ID NO:2193: (Length of Sequence = 247 Nucleotides)

GGTCTCAGCA CTGCTGGGT GACCCGCGGG AGCAGGCAAA GGAGGGCTCC CAAGTCCGTT CTGCAGCACT GGGGCAGGGA
ACAGACCCAG GNTCCTGGGA ATCTCTTCT GCCTAGCTTT GCCTGCTGC CAGAGCAGGG CCTGCGGTTT GGGTNCGTIN
ACCNCCCGG GCGGGGGAA GGGCAAGNA GCGGATCTC TGAAGTCCG CCCAAGTTC CTNCTGATCC CCCAAGGTCA
GAGAGG

SEQ ID NO:2194: (Length of Sequence = 399 Nucleotides)

CCTCCATCTC CCGGTTCAA GCGATTCTCG TACCTCAGC TCACAAGTAG CTGGGATTAT AGGTGTCCGC CACCACCT
AGCTAATTTT TGATTGTA GCAGAGATGA GGTTCGCCA GGTGGCCAG GCTGGTCTTG AACTCTGAC CTCAAGTAT
CCACCACCT TTGTGGCCT CCCAAGTGC TGAATTACA GGCAACATGT AGCCTTTGAG TCTAGCTTCT TCCACTAGCC

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TAATTCATTT GAGATTCCAC TCGATTCTAC TTGAGATTCA TCCACATTGT TGAATGCACA TTCPTTTTTA TTTGTTCTGT
AGCATTCTGT TGTGCAGCTG TGCCCCAGTT TGTITFANCTA TTCACTCTCA GTTGTITCCA GTTTTAATGA CAACTTCAG

SEQ ID NO:2195: (Length of Sequence = 172 Nucleotides)

TCAAAGTCAG CTTCTTGACC TGCAGGGCTT CAATTGTGG CTGACAGITT TAACTCAGAA AATCCCTGAC TTGATTGGCT
ACATAAATNA TATGINATAT AGCCATTAAG ATCATGGTTT TGGAAAGTAT TTTAATGATA CAGGAATGTG CTCTGAAATA
ATAAGTGGGA CT

SEQ ID NO:2196: (Length of Sequence = 398 Nucleotides)

GCAAAAAA AAATTATTAT CTCACITTA CCAGTGCTGA CACTTCACCA ATGTAGGGCT CTCAGTGACT AGCCCAGGT
CATGCACAGC CTGTTTCAGC AGCTACCTTG GACTTGAACC CAGCTCGGTC TGTCTGACTC AATGCCTATA GTCTTAACCT
TTCCAGCAGC TGCTTCTTTG TCAAACAGGT CCTCCCGCAG GTTTTCACAG CCCAGCCCT TACTCAACAA GTATTTATTG
ACAGGCCTCA GGAACACTAG GCAAGTAGGA TAGCAATGAA CAAGATGCTG ACCTTGACCT TGACCTGCA TCCATAGTAT
GAGCATTTA ACTGGGGGAG GGTTTGCAA GTTCTCTTAA ACAGTCTACT ACATGCTCTG TAAGCATTTT CTTATGGG

SEQ ID NO:2197: (Length of Sequence = 313 Nucleotides)

GTCCCTGTG CATTGAGTGC ATCCCCGCTG GTGACTAAGC TCGCAGCAAG CGGTACCCC CCGATCTGCA AAAGGGCCTC
TCCCTTTGTG TTCTATACAT TGTGAATCTT CCCGTCTGAA GAACGCCAG CCTGCCAGA CAAAGCCCCG CCTTNCCTAA
AGCAGAGGGG CTGTCTGTGT CTCCAGAAAG GGGACATCGG GGGGAGGGG GGCTCAGAAA GGAGAAGGGC TGTGATCTCC
GGTCCCTTCC CCCATCATCC TTCTTAGAC TGATGCTTTG ACTGAATCAT CACTAGCTAT GGGCATTAAG AGG

SEQ ID NO:2198: (Length of Sequence = 360 Nucleotides)

GGTCTCACTA TGTGCCCCAG GCTGGTCTCA AACTCCGTGTT CTCAAGCGAT CCTCTGCCT CGGNTACCA AGGTGCTGAG
GTTACAGCGG TGAGCACTGC ACCTGGCTAG GAAACTNAGT TTTTTCAGTG GTAGAGGCTC CTAGCCAGTG GCCAAGGGAA
AGAGAGAGTT CTGGGTTGAG GGGCTGGCAG GAAGTCAGCA AGACACCAGG GACTCGGCTC CACTGGCTGG ATCTCAGGGA
AGAGCAACTG CCACAGTGGG GACCTGGAAC ACAAAGGGAA ACTGAGGCAG CAGCTGCACC ACAGTTTACA AGTAGAAAGA
CCATGCTTGA GGACAACAGA AGTTTCACTA AGGATGCACG

SEQ ID NO:2199: (Length of Sequence = 374 Nucleotides)

TTTTGGGTAG TACCCTTGCC CTCTTCATGG CCACITCAAA GTGAAGCCAG CAAAGTGATA ATACTTTATC ATTTAGTATT
ATCATAAAGT ATTAATACTT TGTCTATAAG TCCTCCTTGA GCCCAGGGAC CATGGAAGTC AGCTAGAAGA GCCCTGAGCA
AGGAGCAAGG ACTTGGGCTT CTCCAGCTT TGCTCCTGGC TTGTTTGACC TTGACTCATT CCCCATATGT CTTTGAGGAG
GCTCACAAAA TACTAAAGCT GGGAGGAAAC TTGGAGATCT ATAGGTCAAA CCTCCCCATT GGGCTGATGA GAAAATACAC
GCAGGCCTAG CATGGTGCCT GCCACCATGG TGGGATCCAG TATGGTTTTA TAAA

SEQ ID NO:2200: (Length of Sequence = 416 Nucleotides)

CTACTAAAAA TACAAAAATT AGCCAGGCGT GGTGGTGGGC ACCTGAAATC CCTACTCAGG AGGCTGAGGC AGAGAATCGC
TTGAACCTGG GAGGCAGAGG TTGCAGTGAG CCGAGATCGT GCCACTGCAC TTCAGCCTGG GTGACAGAGC GAGACTCCAT
CTCAAAACAA AACAAGCAAA CAAACAACAA CAACAAAAA TACCTCTTGA CTTCTAAAGA CGCAAAAGTG GCCAAAAGTG
CAATACAGTA TTGTGTTTAT TTACATCTAT TTTAAATGCA TGTGTATCTG TAAATNCAAA GTGATTCTGT ACTCATTTGT

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TCCTCAGTCT ATAGCATTAT TAACTTTCTA GGAGCAGCAG TGGAGTAGAG TGGTACTGAA TTGGTCACAG ACTTCATCOG
ATTATCAGGA TCCTGG

SEQ ID NO:2201: (Length of Sequence = 315 Nucleotides)

GAAACCAATA TAAATTTCAA AATAAACAG CATACAGACC AATTGCAATT TATAGAAAAA ATAAAAATGT AGAAACATCA
CCTCCTCTCC CCGACCCAG TACTGAAATT ATACTTCCTC AGACATACTG CCCCATCACT GGGGAAGGGTG CCGACAGATT
GGGTACATTT ATAGANTATT AAATAATTAA GTAACAGAGG CACCGTTTTT GCATGTATGG TCCCAAAGAC TTTTCAACTT
NTTTTTCAAC ATTACAGTTG TTAAGAATGG AAATTGAAGG AATTGTACAT ATTTTCACTG GCAGTTTCTT ACAGA

SEQ ID NO:2202: (Length of Sequence = 328 Nucleotides)

GCTCTGTAC TCAGCCTGGA GTGCAGTGGT GTGATCTCGG CTCCTGCAA CCTCTGTGTC GCAGGTTCAA GCAATCTCA
TGCCCTAGGC TCCTGAGTAG CTGGGATTAC AAGCATGCC CACCATGCCC AGCTAATTTT TGTATTTTFA GTAGATACAG
GGTTTCGCT TCCTGACCTC AAGCTATCCA CTGCTCTGG TCTCTCTCAG TTCTGGGATT ACAGGTATGA GCCACCATGC
CTGGCCGGAA TATATATATT TTTTACCACT CTATTTCCAG TGCTAGACT AAAACCCAGC ACATGGTACA CGTCATACAT
AAGGAAGG

SEQ ID NO:2203: (Length of Sequence = 268 Nucleotides)

ATTTTGTGCT CGTCGCTCAT GCCACCCTG GGACCNACGG GGT CCGG AGTGGTTTTT CTGGCTTGTT TCAGCCTTTT
CAGGCTCTCT TCCATCTTCT TCACAGAGTT TAATACATCT GACACGGTTT CATAGTACTT ATGAGTGCTT TCCTGAGAG
TGCTTCTAG CCCTGCTGA ATTATTGCTT GTTTGAGCTT ATCCTTGCT CCGCTCTGAA GCTGGAATAA GGGCTTCANA
GCATGTCCA CATAGGAGGA AGCTTTGG

SEQ ID NO:2204: (Length of Sequence = 353 Nucleotides)

GTAAATCINA GGTCAAGGAT GTCCCATGAT GGATGATGAC TGANATGGAC GGAAGTTGG TTTGAAGCGG TGGCATTTGT
GCAGGCTGGC AGAGGGGGCA GTTCTGGATA GAGTGTCCTG ATGAATGGGG ATACTCATGG GAGGTGATGC AGATGAGGAT
TCINTGCTTC TNAAGGAGGA GCCAGGCATT TAGAATGGCA CTGGAGAGCA AGGACTGACT GANCCCCCTC ACTGTGTCCC
CAAGAGGCCA GGAAGGGAAG ATGGAGGAG ACAAGTTGA AGTGAGTTT CCAGGGAACG AGTCAGTTAA GAGATGGTAG
GATCTTAAGG GAAGATGGCT AAGATCTTAA GGG

SEQ ID NO:2205: (Length of Sequence = 265 Nucleotides)

GTTCACCAT GTTGCCAGG CTGGTCTCAA ATTTCTNACC TCAGGTGATC CACCCCTCCT CAGCTCCCA AAGTGTGGG
ACTACAGGCG TGAGTCACAG CGCCAGCCG TGGTTTTTTT TTTTATAGAA CAGTGTMTTG CCATGCTGCC CAGGCTGGTC
TCAAATCCAT AGGTTCAGT GATCTCCCA CCTCAGCTC CCAAAGTGTG GGGACCACAG GCATGAGCCA CCATGCTTGG
CCAGAAAGAA GTTGTTAACA AAATG

SEQ ID NO:2206: (Length of Sequence = 340 Nucleotides)

GCAAAGCTTA TTTTTCAGT TGTTGGCTCT AGTTTGGTTG GGAACTATT TCCTTAGACC TGGGTACCC CTCGGGCTCC
CTTAATCTCC CGCATATGT TCTCCAGAT CAGGGCATGG TGTCTGCC TGGTGCGACT CAGCCCGGTT GCCTTGACA
GACTCTGGC CAGGGCAGGA TGTCGGTGT TGCCGGGTGT TCGCCGGGTG TTATCTGTGG CGCTCAGTAT GGTGCATAGT
GTAGACAGT GCCCTAGGTG GTGTTAATT GATCTGGTA AGACTCAGNC AAGGCAGGC ACAGTGGCTC ACGTCTATAA
TCCAGCACT TTGGGAGGCT

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SEQ ID NO:2207: (Length of Sequence = 348 Nucleotides)

GTGTTTGTTT CTCTTCCAC CATAATGTGA AGCTTCCTAA GGCTCCCA GCCCTGTGGA ATTGTGGATC AATTAAACCT
CTGTCCTTAA TAAATAACCC AGTCTGAGGC AGTTCCTTAT AGCAGCGTGA GAATGGACTA ATACACCTCC CTCTTTGAGT
CTGGAAGAAT ATGTGAAGGG AGATTGCTAA GGACTTATTT ACAGAATGGT TCTTAAAGTG CTTGGGCAAG AACTATGTAT
TTNTGGAGGC TGGTAGTGT TCAGTGAATC TGAAAACCTT TGTGACATGT GAGAAAGGTA TGCTGTCTCT GAAAGCTAAG
TGTATTATGA AGGATCTATA AAGGGCCA

SEQ ID NO:2208: (Length of Sequence = 154 Nucleotides)

GAATCCTGCT GTGCACATTG CTTGAGATGG CTAATTATAT CTTTGGACTG TTTGTACAAC CATTGACAAA TATACTTACT
TTCATTTCTG CTAATGCAAC TGAAAAGAGC ATTCTGTAAA TTGAAGAAAA ACAATAAAC AGNAATTAAAC AACC

SEQ ID NO:2209: (Length of Sequence = 352 Nucleotides)

GAGGTTGAGA ATCCTCCATC CAGCATCTTC CTTGGTCACA TGGTCCCAAC CTTTGTCTCC ACCCCCTTCT CTGTCCCCC
CGCAGTCCAT GCTCCAGCCA TCCTGACTCT GTCCCTGGAT TTTCTGGCTTA CTGACACCTG AGCCTGTGCA CAGGNCCTCC
CTTCTGTATA GAGCAGCCTT CCCATCTTGT GGACTTGTCT CCCATCTTGT GGACTCGGAG GGTTCGGAGC AGCCGTTGAG
GTGANGCTCC TATGACACCT CCNCCGTGAA GCCTNCCTCA CTTTCCATT ACCAGTGAGG CTTGCCACAG CTTGATTGT
ACTCTGATCC TGGCAGCAT GGAAGCCATC TT

SEQ ID NO:2210: (Length of Sequence = 338 Nucleotides)

GTCTTCCAT CAAGAGTCAA TGTATATGCA AATATAGACT TAAGAACATA AGCATCCTGG TTTAATGTTG TTGTGAGCCC
TGTTGAAATA AAATTAACT CAGTGAATGT TTACAAATCA ATACATAGTA ATCTATATA TGAAAGCTAA GATGTATAAG
ATGTTTATAA ATTINCTATT AGAAAATACT GCTTCTTAA AGGTGATTTT AAAAAGCTAG CTGATATCTG ATGGCTCAAG
CATCCAGAAA ATGTATGCAA TGATAAGNCA TTGACTAGGA TGAACAGAAA AGGGATACAG GAAAAGTCCG AACACATGAA
ATTCTAAATT AACCAAGA

SEQ ID NO:2211: (Length of Sequence = 353 Nucleotides)

GTTCCTGGAG TACCTCTTC CCCAACCCC AGACCTGCTT TCAGAGCAAA ACTCAAGTCC CTCTTCTTCC GTGAAGCTTC
TCCCTCAGCT GAGCAGTGAT CACTTACTCA CTCTTAACCC CAATCGCTG ACTGGGTGGG GACAGCAGT CCAGCCTTCC
CACCTCTCT GCAGGCTTCT AGACGGAGTT TCAAAAACCTG ATGAGCCTCG ATCCAGGCT TGAAAGAAGC CAGGGTGTAA
TCTTGTTTAT GCATGCTTCC CCAGAGNCTC GCCAGTGCC TGGNACATAG TAGGCACTCA ATAAATGCTG AATGGGTGAA
TAGTTGAATG ATAGGTGCTC AATAAATGAA TGA

SEQ ID NO:2212: (Length of Sequence = 293 Nucleotides)

GAGAAAGGAG GCAATCTCAG TCTCGTCTC CAAAAGGGA TACTACTAGG GAAAGCAGAA GATCTGAATC ACTGTCCCCA
AGAAGAGAAA CTTCTAGAGA GAACAAAAGA TCTCAGCCAA GAGTGAAAGA TTCTTCCCCA GGAGAAAAAT CCAGGTCCCCA
GAGCAGAGAA CGAGAAAGTG ATAGAGATGG GCAGAGGAGA GAGAGAGAAA GGAGANCCAG AAAGTGGTCT AGGTCCAGAT
CTCATCTAG GTCCCCCTCA AGATGTAGAC CAAAAGTAA GAGTTCATCA TTT

SEQ ID NO:2213: (Length of Sequence = 423 Nucleotides)

NATTAACACC ACAGTGATAA ACAACTTTAA GCTTATGTTT CTTTATAGAT CACTGGCTCA CACATAATTC AAAACCCACA
CAGAAGCTAA GAGTCTTTAC ATTAATATA TTCTTCTTAA AAATCCTTAC TGTATGCATC TGTCCTCAAG CAGTAAATTT
TGATTATGCA CCATTTTATA ATTAATATGT CACATTTTACA TAGCAAAATA ATGAAGGCAC AGCTAATACA AGCAAACTTA

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AACCCCTTCT ACTTCTGAGC TGGGGGTAGG GGCACACACT TGGGATTGGT TCTTCAAGTA TATATTTTIN CCAAACATTA
GCTTCAGTGA AGAGTCTCG ATGATTTTCA CAGCTACACC CCTAAAAGCT ACATGGACAG AAAGACGTCA CAAGGCGCAA
GGTACATAAC GGTGGGTACA TAT

SEQ ID NO:2214: (Length of Sequence = 259 Nucleotides)

GTCATGGAGA TCCACAGCAA GTACTNGCGC TGCTGCAGG ANCAACCTCC ACAGCGGGC GTTCTCTGAT CGAGGCTCAG
ACTTTGAGAGA ACGAAGAAGC CGAGACGGTC ACCGCCATGG CCTCGCTNTC CGTGGGCGTN AAGCCCGCCG AAAAGAGACC
AGATGAGGAG CCCATGGAAG AGGAGCCGCC CTINTAGCAC TNCCTCGAAG NTGCTGTCT CTGTCTGTC TGTCTCTGTC
TTTAAGCTCA GCCAAGAAA

SEQ ID NO:2215: (Length of Sequence = 378 Nucleotides)

CACACATCCT CACCCACAG AAACGTCTGG ACACACTGAA GAAACTGAAT AAAACAGATG AAGAAATAAG CAGTTAAAAA
AATAAGTGC CCTCCAAAA CACGNCCTCA TCCACAGCG CTCGCGAGCT TCCCACCACC GCGCGCTCA GTTCTTTTGC
GTCGTGTC TCCCAGCCC TGACGCCCCT GGCTGGCACT GTTGGCGCTG CATCTCTGTC TTCAGTGATG CCTCTTCTT
GTTTGAANCA AAAGAAAATA ATGCATTGTG TTTTITTTAA AAGAGGTATC TTAATACATN GTATCCTAAA AAGAGGAGCT
CATGTGGCAA TTGGTGACA GCAGGAGGAA ATTTCTTGGG ACTTNTTTAG GNTGAATT

SEQ ID NO:2216: (Length of Sequence = 428 Nucleotides)

GAACCCACAC TGGGGAGAAA CCATATGAAT GTAAGGAATG TGGGAAAGCC TTCAATTATT CCAACTCATT TCAGATACAT
GGAAGAACTC AACTGAGAGA GAAACCTAT GTATGTAAGG AATGTGGAA AGCCTTCACT CAGTACTCGG GCCTTAGTAT
GCATGTACGA TCTCAGAGT GAGACAAGCC CTATGAATGT AAGGAATGTG GGAAATCCIT CCTTACATCC TCACGCCTTA
TTCAACATAT AAGAACTCAC ACTGGAGAGA AGCCTTTTGT ATGTGTTGAA TGTTGGGAAAG CCTTTGCACT TTCTCAAAT
CTTAGTGGGC ATTTNAGGNA CTCACACTGN AGGAGGAAGG CCTCTGAAGT NTNAGATATG TGGGGNAAGT ATTTTGGGGA
ATCCCCCAT GTCTTTAATA ATCCCAT

SEQ ID NO:2217: (Length of Sequence = 408 Nucleotides)

GTCATCAGAG TTCATGTGA ACACCTGAA TGCGGCTCG GGGGCTTGT CTGTACCAT TGATGGCCCC TCCAAGGTGC
AGCTGGACTG TCGGGAGTNT CTTGAGGGCC ATGTGTCAC TTATACTCCC ATGGCCCCTG GCAACTACCT CATTGCCATC
AAGTACGGTG GCCCCAGCA CATCGTGGC AGCCCCCTCA AGGCCAAGT CACTGGTCCG AGGCTTTTCC GGAGGNCACA
GCTTINAGN NACATCCAG GTTCTTTTGT GGAGACTININ TACCAAGTCC TTCTTAAAG CGGGGGCTT TCAGGTTACA
AGNTCCATT CCCCAAAGTT TTTCTCTCAA AATNNCCAGC AAAAGGTGGG TTGACTNGG GGGCCCTNGG GNTTTTCCCA
GGGCTTTC

SEQ ID NO:2218: (Length of Sequence = 316 Nucleotides)

TTTACAGAAT ATAGCTTTAT TTATAGAATC TTACAAATAA AACATTTACA GTCCACATAA GTTAATTINC TTTTCTAATT
TCTTCTATA CACCTGAGTT ATTTAAAAA ATACTGTGAT GGAAGTGCAG AACTGTAAAG GGAAATAAGA ACAATAAAT
CCTAACCTCT CTGTCAAAAA TCAGACAACT TTGTTTTTAA GTAGATGCC AGCATATTGC CATCTCTTTG GAAGAGGACT
TACTATATC AGCTCTTACG NTACCCAAAC AGAGAAGCCT TCTTTTAA ACCCAAGGT AAGGGCCAG TGAAG

SEQ ID NO:2219: (Length of Sequence = 319 Nucleotides)

GGCTTCTGT CCCAACCTT TCTCAGGTG GCGCTGGAC ACAGCAGCCA CCACAGTCCA GGCTGCGAG GCAGGGTGTG
ACCTGCCC GGCAGCCACC CCTCCTGAG AAGAAGCGG CCTGGAGGG GGATCGTCT TTGGGCTCAG TCTCTCCTC

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CTCCAGTGGC TTCTCCAGCC CGCACAGCGG GGAGCACCAT CAGTATCCCC TTCCCAAATN TCCTTCCCGA CTTTTCCAAG
GCTTCAGAAG CGGCCTCACC TCINGCCAGA TAGTCCAGGT GATAAACTTT GTGATCGTGA AATTTTGTTC AAGACACTT

SEQ ID NO:2220: (Length of Sequence = 343 Nucleotides)

CTGGCTAACA TGGTGAAATC CCGTCTCTAC TAAAAGTACA AAAAATTAGC TGGGCGTGGT GGTGGGCACC TGTAGCCCCA
GCTACTTGGG AGGCTGAGGC AGGAGAATGG CGTGAGGCAA CAGTGCAGCC TGGGCAACAG TGCACCTCCT CCATCTCTAC
CAGCGTCCCC TCCAGTCTGC ACGGGGCAGT CCTCTTGGGC TTGACCTCTC TGTACCCACA GCTGGGGGCC AGGCAGCCCC
CCTCTATCCC TCCCAGCACC TACTACATCG NCCINACAT CCCTGATTCC TGTGTATTG GGAACCTNIT NCCAGAGATG
GAGGTCTCTT CGGAGTATCT CGG

SEQ ID NO:2221: (Length of Sequence = 373 Nucleotides)

CTCTGTCTCC CAGCCCGGAG TGCAGTAGCG CAATCTTAGC TCACTGCAGT TTTGACCTCC CAGGCTCAAA TAATCCTCCC
GCCTCAGCCT CCTAAGTAGC CGAGACCACA GCCTGCGGCC ACGACATCTA GCCAATTATT TGTTTTTTGT AGAGATGAGG
TCTCACTGTG TTGCTCAGGC TGGGTAGGTG TCTAACTCCT AGGCTCAAGT GATCCTCCCA CCCAGNCTC CCAAAGTGCT
GGGACTACAG GCGTGAGTCA CCGCGCCTGG CTTTGTITTA GGCATTCTTT TTCCGCAGCA TCTGTTACCA GCAGCCTGAA
GNCATTCTTA TAAACAATTA TCANGGAAGA CACATGGGNC AGAGACCTTA AAT

SEQ ID NO:2222: (Length of Sequence = 197 Nucleotides)

GTCTCCGTGA ATTCCCCCAA ACGGTTCTT GAGGATGTGA AACCAACTTA TTGGGCTCAA TCCCATTTGG TCACAGGATA
CTGTACGTAT CTNCTTTTCC AGAGATTGA TATCACCCAG ACACCGCCAG CATACTAAA CGTGTACCA GGTGTGCCCC
AGTACACCAG CATATATACA CCCTGGCCA GCCTTTC

SEQ ID NO:2223: (Length of Sequence = 280 Nucleotides)

TTTTTTTTTT GCATTTTITAG TAGAGACGGG GTTTCAGTGT GTTAGCCAGG ATGGTCTCAA TCTCCTGACC TCGTGATCCA
CCTGCCTCAG CCTCCCAAAG TGCTGGGATT ACAGGCATGA GCCACTGCGC CCGGCCAACT TTTTGCAATG TTTCTTTAAA
ATTTCTCTAC TTTTAATTGT ACTTCTAATA CAGACACTTC TGAAATCAGT TTTACATTG CTGCAGCCTT ACCAATTGT
AGANACTGTT TATGTGATGT TTGATTCTT CATTTATATA

SEQ ID NO:2224: (Length of Sequence = 388 Nucleotides)

GATTGCAGGC ATGAACCACT GCGCCAGTC GAGTGGTAAT ATTTTGAAAG GAAACCTTTT TCTGAGCAGG TCTCAAAAGA
GAGGTTAAAA TACTGAGTAG ACCATGCTGT AAACAGATGT GCTGTTATTC GGGCTTTGAT ATTCCATTTA TAAAGCACAG
GCAGAGCTCA GAGTAGATTT AATGTAATC TGAAGGGCAC TAGGATTTIN AGAATGGTAA ATAAGCAITG GCTTCAACTT
AAATTCAAAT CTGCAITGGC TTGTAATAAG AGACTAGCTT GTTACTGAAG CTTTNAAGCC AGTTGTTTTT TCCTATCTAG
CTAGGAAAGT CCTAGATGGT ATCTACTTCC AATAAAAGGC TGTCTCGGCC AGGCGCGGTG GCTCACGC

SEQ ID NO:2225: (Length of Sequence = 420 Nucleotides)

GGTCGAGGAG CCTGGGCCGG GCCGGCGGG GACTACTCCG GAGTCAGGAG GCAGCAGNGG CGGAGGACGA GGATCTCTGG
CAGTCAGCGC CGCTCGAGC CCGCGGCAC CATGGGCTGC TGCACCGGAC GCTGCTCGCT CATCTGCCTC TGGCGCTGC
AGTTGGTCTC AGCATTAGAG AGGCAGATCT TTGACTTCCT TGGTTTCCAG TGGGCGCCTA TTCTTGAAA TTTTCTACAC
ATAATAGITG TCATATTGGG TTTGTTTGGG ACCATTCACT ACAGACCTCG ATACATAATG GTGGACACCG ATCTAATGAC
ATCAATATC TCTGTACATC GGTGATGGT GAGAGAACAT GGGGCTGGT TGINTCAAGA AGAGTGTCTG CTTCCTCAA
GCCCATGGC ANNGATGGAC

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SEQ ID NO:2226: (Length of Sequence = 264 Nucleotides)

GTACCTGCTC CCTGCCGCA CCTTINTGG TGGATATTTA GCTGCCCTCT ACAGTGGTTA TAACATTGAA CAGATCATGT
ACCTAGGCTC GGGTTTGTNC TGTGTCGGTG CCTTGGCTGG CCTCTCCACC CAGGGAACAG CACGTCCTGG CAATGCACTG
GGCATGATTG GGGTGTCTGG AGGACTGGCA GCCACCCTCG GAGTCTTAAA ACCGGGCCCA GAATTACTAG CTCAGATGTC
TGGAGCGATG GCTTTGGGTG GTAC

SEQ ID NO:2227: (Length of Sequence = 402 Nucleotides)

AGAGGATTGG GGCCTGGGG CAGGGGCGCT GGCACATTCC TCAGATTCTG GCATGTCATC CTGGAAGTAC TCAGCCTGGC
GGTACTGCCA CAGACGAGG TTCCCGTCCC ACGAACTGCT GACAACTTTC TCTTCAAAGG GGTGCCAACT GACGTCACGC
ACACAGGCCT TGTGGTTGGT CAGCTTCTTC ACAATGTGGC CACTTAGAAG GTCTACACA ACCACTTTGC CAGTGGAGCA
GCCACTGTAG ATGAAGTCTT GGCCAGTCT ATGAATGGGG GAGAACCGGC AGCGGATGAG GGTGTGCAGC ACTCCGTGGC
CCCGGTAGGT CATCAAGGAG CTGTCCCTG GGAGCTTCAG TTTCCGCCAG GCTTTTTTNG GGCACCTTCT GCCACCGATA
GT

SEQ ID NO:2228: (Length of Sequence = 394 Nucleotides)

TTTAAAGTGG AAACAATGTT TTTAAGAGGT GATATAAAGA AATGCCCCCA CTGTAATCCC TACCATATGT TGATTCATG
TGGTGGGAGG GAGGGGAGAA TGATTCCTTT TCTTAGAATC AGAGAATTTG GAAAGTATCA AGAAAGATAA TAACAGAAAG
CATGAAATAG AGTTGTGCTT TGAAGATGAA TTGGATGAAA TTTTATATG AAGAGGAGTT TTCCAAAGTT GCAGACCCAG
GATTCCTGGC CAGAAGCATG AAAACGTTTC TTTCTTACTG TTTCTAGGAC CTAGGCAGCA TTTCTTCCAT GTCTGCAACA
ACATAAGAAA CAACAGCCCA AACAGCAGCA GCAACATTCA TCTGCTTTGG ATCCCATGGA CAGTCATGGT GTCT

SEQ ID NO:2229: (Length of Sequence = 342 Nucleotides)

TTTTTTTTAG GATGATTGAG TGTTCCTTTA AAAATAAAAA CCCCACAAAA AAGCCAGAAC ACCCTACCCA ACCCAGCCCA
GTGTAACAGG TTAGCCATTA ACACAGAATA AAGAAGGTCC CAGCCACACA CGTCATTACT CGGCAGAGGG TGTCCAGCCT
GGTCGGCCGA CGTCACAGTG GATGCCCTG CGTGGCTGGG ACACAGACAG GGAGCAGGCA TGGCACTGC GCCACGCAGA
GCAGCAAGGC TGAGCATGAC CACTGGAAAT AAATAAACAT GGTGCCGACA GCATCTTTGA ATTAGTAAGA CGTTAGCACA
AAACAAAAAA GCACAACGAC TG

SEQ ID NO:2230: (Length of Sequence = 357 Nucleotides)

GTGGAATGCA GCCATCACAC AGTAGTTTCT GAGATTGCTT CCGTCTAGGT TTTATGGGAA GATATTTCCT TTTCTACCAT
AGGCTTCAAG GCGCTCTAAT ATCCGCTTGG AATACTACA AAAACAGTGT TTCAAAACCTG CTCTATCAAA AGGAAGGATC
CACACTGTGA GTTGAATTCA CACATCACAA AGAAATCTCT GAGAATCTTT CTGTCTGGGT TTATAGGAAG AAATCCCGTT
TCCAACGAAG GCCTCAAAGC GGTCCATATA TCCACTTGCA GATTCTACAG AAACAATGTT TCCAAACTGC TCTATCAAGA
GGAATGTTGC ACTCGGTGAG TTGAATGCAC ACATCAC

SEQ ID NO:2231: (Length of Sequence = 304 Nucleotides)

AAGAGACGAG GTCTCACTTT NINGGCCAGG TTGGTCTCAA ACCCCTGGTC ACAACAATC CTCAGCCTC ANCCCTCCAA
AGTGCTGGCA TTACAAGCAT GAGCCACCAT GCCCAGCTTA AGGGGATAT TTTTATAGAG CATCTTGCCC TGGTTCTGGA
ATTCTCTGTA GATAATACAG TTAACAGATA TTCCCTTAAG TGATTAGAA CCTTTCATT TGACTGATTT TNCAGAAAAG
TTTACCTATG TAACCTCAGT GGGTAGCACA ATGCTGACA CATCTTTGNA GTCCAAATGT CTCT

SEQ ID NO:2232: (Length of Sequence = 354 Nucleotides)

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CCTGCCACTG AGGCAGGTGC GGCCCCAGGA CCATCACCAG GAATGCNAGG CCACCCTGGA CCAGAGGTAG GAGCCCAAGG
TCCGGCCCTT GCTCTTTGAT TGTGGGCAGC CTCCTGCCCT CTCTGGGTCT CAGTTGCCCC ATCTGCAGAG CGAGGAGGCC
CGGGCTGGTT GGTCTTGAAG GCCCTTTTCC ATGCCGACAT CATGTCACTC TAGGCCTGGG GTTCAGTTTC CTGTGGCTGG
TGATGCTGTG GTTAAGTTTG CTGACCCCA GCAGCCCGAG GGACTGTCTG AGTCACAGCA CAGCCCTTAT TGCCTGGCTG
CTGGTGTGTG GGTCAATTC CAGCAGATGA ATGT

SEQ ID NO:2233: (Length of Sequence = 414 Nucleotides)

CCCAAAGCCC GCACGATGCA GGCCACTNCG ATTCCACCAA GATGGACTGT GTGTGGAGCA ACTGGAAAAG TCAGGCTATT
GACCTGTTGT ATTGGCGGA CATCAAGCAG ACGGGCATCG TGTTTGGGAG TTTCCTGCTG CTGCTCTTCT CCTTGACCCA
GTTCAGCGTG GTGAGCGTGG TGGCTTACCT GGCCCTGGCC GCACTCTCAG CCACCATCAG TTTCGCGATC TACAAGTCTG
TTTTACAAGC AGTCAGAAA ACCGACGAAG GCCACCCCTT CAAGGCCCTAC TTGGAGCTTG AGATCANCTT TTCTCAGGAG
CAGATTCAGA AGTACACGGA CTGCTCTGCA GTTCTACGTG AACAGCACAC TTAAGGAACT NAGGAGGCTC TTCCTTGTCC
AGGACCTGGT GGAT

SEQ ID NO:2234: (Length of Sequence = 394 Nucleotides)

ATAATCCGAG TGCTCCATCT TCAGTGCAT CTGGACTCCC ACCAAGTGCA ACACCCINCA NTGTGCCTTT TGGACCAGCA
CCAACAGGAA TGTATCCCTC CGTGCTCCC ACCGGACCAC CTCAGGACC CCCAGCACCC TTCTCTCTT CCGGACCATC
ATGTCCCCCA NCTGGTGGTC CTTATCCAGC CCCAAGTGT CCGGGCCCTG GCCCCACAGG GCATATCCTA CACCAATAT
GCCCTTTNCA GAGCTACCCA GACCATATGG TGCACCCACA GATCCAGCTG CAGNTGNTCC TTTAGGTCCA TGGGGATCCA
TGTTTTNIGG ACCCTTGGGC GNCAGGAATN GGAGGGCAGT ATCTTACCCN GTAATATGGC NATATNCATN TNCA

SEQ ID NO:2235: (Length of Sequence = 376 Nucleotides)

CTGATATGAT GACAATAAG GAGTATGCTG CTGCTGTTCC GCTTTGCGTC CTCGCTACAA ACGCCTGGTG GACAACATAT
TCCTGAAGA TCCAAAGAT GGCTTGTGA AAAGTATAT GGAGAAATG ACATTTTATG CAGTATCTGC TCAGAGAAA
CTGGATCGAA TTGTTCTTA CTTGGCAGAA AGGTTGAGCA GGGATGTTGT CAGACATCGT TCTGGGTATG TTTTGATGTC
TATGGAGGCA CTGGACCAAC TTCTCATGGC TTGCCATTCT CAAAGCATT AGCCATTGT AGAAAGCTTT CTTCATATGG
TGGCAAAGCT GCTGGAATCG GGGGAACCA AGCTTCAAGT TCTTGAACA AATTCT

SEQ ID NO:2236: (Length of Sequence = 399 Nucleotides)

TGGCAAGAAC ACTGAAACCC AGCCAACCTC TCCTCAGCTA GGGACCAAAA CCTTTTGTG TGTAGTCTT CCGAGGTTGG
AGACTCTTCT GCAGCCAAGG AAAAGGTCCG GGAGACATGC GGAGACTCCG AGGTGGAGGA GGAGTCCCA GGAAAGCGCC
TGGACGCAGG TCTACCAAC GGCTTTGGGG GTGCGAGGAG CGAGCAGGAG CCGGGCGGCG GCCTNGGGAG GAAGGCCACA
CCCCGACGAC GCTGTGCCTC CGAGTCCAGC ATCTCCTTCA GCAACAGCCC GCTCTGCGAC TCGAGCTTTA ATGCGCCCAA
ATNIGGGCGG GGGCAACCG GCTCTGTGTC GACGGCACAC GCTTGGAGGA CCNAGTNAG CTGATCTTCT GCATCGAGA

SEQ ID NO:2237: (Length of Sequence = 234 Nucleotides)

AAANIATAA CATTTTAAAT ACAGTCTGAT CAGATCAATT CACATCACAA GGTCAACCG GGCTTGCTCA CATGTGCAC
AACTGAGGNA CACAATGTCC CTACCTGCCG GCTGTCCAC CTTCCTGGT CCAACAGCA TTGAAACCCC CTACTTCCCT
GACCAGACTG GCATTTTAA AAATTTTGCA TAAACTATT TCTTCATAG NCTTCAACA ATCAACTAGC CAAG

SEQ ID NO:2238: (Length of Sequence = 369 Nucleotides)

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ATTTAAGGCT GTACTTAACT AATTGGGGCT GAGGATGAAT ATATCAGCCA CAGCACATTA AAGAATGAGC CAAGGATTTG
TCATGGTTGG TCACITTTTTA AAGTATTGA TTACTGCAAC TGGAGAATGA AAAGTGATA TTGGTGACG CAACCTCAGT
TTCTGAGCAC TCCTGCTCTG TGGTGAGAAT CAGACAAAAA TTCATCGGGG TGAAAAAAA AAGGCATTAC CTGATTACACA
CCCTTGCTTT GCTAGCCCTC TTCCATTTCAT TTCTACACA GCACITTTGCT CTGTAAATC CTCTCTCTGT CTCAGACCAT
TGCTTGCCCC TTCAAAGGGT ATGGTTCAGG CTCCTTTCAA GACATTTGG

SEQ ID NO:2239: (Length of Sequence = 399 Nucleotides)

TTAATATAAT ATTCAAGTCT AGCATTGCT ATTTACAACA AATAAATATT GCCCCCCCC AATCAGTAAA CAAACATTTT
TTTTTCTTT TTGCTTTTTA TACAAATATT CAATCACCCC ACCCCACCC CAAATCCTCC TTCTCTACTA ACCCCGCTC
TGCATGGTCT CGTAAAGCCC AGGACGCGT GGTGAATGGC ACTTGCAGTG GCATGAGATT CAACATCGAT GGGACTCAGC
TGGGACTGTC CTCCTCACC GGGTGCAGAG TCTGGTCCAT GAAGAGGGNT TCINTCTCTG CTCCCAGGGG AGGGCTGGGG
TAAGCGGTGG GTGAGACTCC CTCCTCTCA GTTGGNCTG ATGATGGAAT CTFTNGTGA GCCTGAGAAA GGCTAGAGT

SEQ ID NO:2240: (Length of Sequence = 388 Nucleotides)

TTTTCAGAAT TCATCTCTGA CTTTAATGGC TTAAGCAAGA ACATGGTTTC CGTGGCTCCC OCTGGACTGA ATGCTGGAGG
ATATATACTT CACAGTCTGA GGCTGGTCC CAGGAAGTGC AATCTAACAG GATGGCAAGT GGTTTTGAAA CATATAGATT
TTCAGGATGG AAGTTTGATT CTTGAGATTG TGACTCATCC GTGAAAATA AATGGTTTAC CACCTAAATC TGTATATTCC
CATCAGTGGC TTGGCTGACT CAGTTGTAAA TAGGGTACCC TCCATCTGTC TCCCACCCAT ATGCTCCACT GTCCCCAGGG
CCTCAGTCC TGANCCCTAG GGGGATTGGA GTTGGCTGCT GGATTCATTT CTGCAAGCA GGCTGCA

SEQ ID NO:2241: (Length of Sequence = 377 Nucleotides)

CTCCATTTTG TCCTAGTTAC TTTTAAGGTA TAAGCTGAAG TCATTGATTT GAGATGTTTC TNCTTTTCTA ATATAGGTGT
TTAATGGTAC ATATTCTCC CTAAGTACTG CTTTAGTGGC ATCCTGCAAA TTCTGACATA CTGTGGTTCA TTTTAATTCA
TTACAAAATA CTTCTTAATT TCCCTTTTGA TTCTCTCTT AATTCATGGG TTAATTAGAA TTGTGTATT TAATTTCNAA
GTACTTGGCG ATTTATCTCT CTCGTATTAT CATGCTAAT TTAATCCAG TGTGGTCTGA GAATATATTT NGATATCAAT
AAAGCTACTC CAGCTACCTT TTGATTAAAG TTATCACAGT ATATCTTTTT CTATCCT

SEQ ID NO:2242: (Length of Sequence = 381 Nucleotides)

CCCACATTAA CCAAACACAC ACACACATGA CAAACTCTAA GTCTCCAGAC AGACACCTTC AAATAGGCAC TTGGTGTTTT
CAGCTGGGGG CTGGAGAGAT CTGGGGCTTT GGCTCCAAA GGNAGGAGCT GCTGTCCCA GAGAGGAGAC AACAGCTTCT
GGAGGCTCTG GGGACTCATT GGATGGGTAC TGGCTAGGTA GATGGGAAGG GGGCTGTTT AAAGAAGACC CCCCACCCCC
ACTGCCCAT TCACCACAAC AGTGACTTGC TGAAGTTTT GTGCCCTGCG GATTTCTGAA TATAGTGGAC AGGCATTTCT
AAAGAGCGCA TCACTGAAGG GGCAGAGGCT NGCCTTTAAA TGTGGGCTTT GCATGTTTTG G

SEQ ID NO:2243: (Length of Sequence = 359 Nucleotides)

ACCATTTATT AAATCAGACT GTTATCTTA ACAGTTATGT AAGTTACATG TATGTTAAG TCAGAGTATT TCACATGGAA
AAGTTTTTAA CTCCTATAGG CAAGCAAAAT CATATCACAC AATATATAAG TGGGAAGGG ATACTGCTAA ACATTCAAAT
AAGGCAAGTA TATAAAACCA ATAAACAAT AATGAAAAA TTCAAGCAAT CCTTTAAGAG AATTCAACAC TACAAGCTAA
ATGTACTTTC TGAGTGTATT CGTATAATCA AGGCAGTGT TCTCCTTTTA AAACATCAGG AAATGGAATA AGGCTCATTA
GTAGATACAG CTGCCCTCAA GATTCAATT TCAGTTTGC

SEQ ID NO:2244: (Length of Sequence = 362 Nucleotides)

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ATATGTACTA CATTGGTGG AATACGCATG TACAATTCTT CAAAAATAGT AAAGAGCAAA ACAAAACAAA AATAGTAGAA
GCACTGGAGA AATACACTAT GGCATAAACT AGTTACGGGT GGGATGTCAC ATGGACCATA TCTACACTCT GTGGCAACCT
TCTTACCTGA CTCCAAGGA TCAGATAATC AAACAGGAAA TTATGGTAGG AAATCAGAAA ATTGAAGTAT GCATTTCATAT
CCTAAGCATT TTATTTTAGC TCAAAATATA AAATATTCAT CAGTTAGCCA AGCTTTGGGA TGAGAGATCA TAGCCTCTCT
TTTGATAGGN GTTCTTGTT TTCTTGATTT CATGTTTCAG AG

SEQ ID NO:2245: (Length of Sequence = 333 Nucleotides)

AAGGATCTGA GCGAGTTCAG TGTCATGTG GCAACGGGG AGATTAAGCT GCCAGTGGAG ATCAGTGGGG CCATOGAGGA
GGAGTTCAT GTGGCCCGAC TCTACATCAG CAAAATCAAA TCAGAAGTCA AGTCTGTGGT CAAGCGGTGC CGGCAGCTGG
AGAACCTCCA GGTGGAGINT CACCGCAAGA TGGAAGTINAC CGGGGGGGAG CTCTCATCCT NCCAGCTCCT CATCTCTCAG
CATGAGGCCA AGATCCGCTC GCTTACGGAA TACATGCAGA GCGTGGAGCT AAAGAAGCGG CACCTGGAAG AGTCTATGA
CTCCTTGAGC GAT

SEQ ID NO:2246: (Length of Sequence = 347 Nucleotides)

AAACTAGCTT TGGTGGGAAC TCCCTCACCC CTGCTCCCCA CAGGAAGGCA TTAATCTATT TATGAGGGAT CTACCTGCTA
TAACCCAAAC ACCCCACCAG CCCCATCTC CCAACACCAC CACACTGGGG ATTAATTTTC AATGTGGGAT TTGGAGAGGA
CAAATATCCA AACCATAGCA GTCTTAAAGT ATTTAAATTA GAATTTAAAT TAAATTTTAA ATTACAGTAT TTAATTAGA
ATCATTTGTG GAGTTTCTAA AAGGTATGCA TTCTAGGCC CCTCTCAAGT TAGATTTATG GACACTGATC CCCAGTCTGG
AATTTTAAAA CAGCAAAATC TCATACT

SEQ ID NO:2247: (Length of Sequence = 357 Nucleotides)

CACAGGACAT GCTCCGTCAG CACAAGCACT CCCAAGTCAA TCTGAAAAGC AGGCAGCAGC ATTGCAGGGG ACAGGTCCTC
CCCTGATCTG GGTGGTGGTC TTCTCCCACT TAAAGCACTA TATACAGGGG GAGGTCCAG GCTGGACATC TTTACCAGGG
GCTGGGAGAA AGCAGGCCGT GCTCTGTGGT CTCAGAGTCT TCTGGCGCT CTTTGGAAAC TGACAGAACA TGACCTCAGT
CCCAGCCAGC GAGTGGCAGA GAGGACTTTG TACTTGGCTG CAATAAAACA TGCCCTTCTT CGCAGAGACA CGAACATCT
CGTCTCTACC AGAGGCCTGT GAGACATCAG CTCAGGA

SEQ ID NO:2248: (Length of Sequence = 327 Nucleotides)

TTCTCTTAT TAATGGCTAG AAAGTCAGGT TCACCCAAGG AAGTCACTGA GGGGCCACAG CATTGAAGGG TATGGGGTTT
GGAGAGATAG GAGCAGGACC CACCACTCAC GTCCAGAACC CAGGGGGCAC ACCTGGTCCA AGAGGTGGAG GCATTGGTCA
CTGGAGTCAC GAGGGTCAGG ACAGGCACTG AGAGGCTGAG GGAGINTCGG TCCGGAGGGA GGCAGTCAGG GGCTAGGGCT
GGGAGTCGTA GCCAGINTGC AGGGCCTGG AGCCCCAGGG CTGATGCCCT GGGCTGCGT AGTACTCCAC CACCTGCCGT
GGCACCT

SEQ ID NO:2249: (Length of Sequence = 404 Nucleotides)

ATTTTAAATT TAGGTTTGT TTATTTAAGT TTAATGTAA TTCCATGCTG TGTTTCAGTA AGAACAAATAC AGATTCTGTA
TCTGTGGCTC CAGTCAGATA TCCAGTAGTA CAAATAGCT TCAAGTTACA CATACTGAAC AAAAGAGGTT GAGCGAGCGA
AGGAGGGGAG GAGTGAGGGG AAGGAGGTAG GGGAGGGGG AAGGAGAAGA AACAAAAGNN TTGAACAGGC ATGCAGGCTT
TTCCATACCA CCTTCAACGC TAACCTGCTT CAGTGGGAGA GTAAAGTAGG CAAGANTGAG CAGCCACGGG ATTGTTGAAC
TGTTACCCAG CACCATGCTT TTCAGCAACA TTTTCAGCGG AGTTTGGGAA CATTTTTTTA CCAGCAAAAA CCATTACACC
GAGT

467

SEQ ID NO:2250: (Length of Sequence = 275 Nucleotides)

TGCCAAATAT ATATATCTGA ACATAGTGAA AAAGTAACAT TTAAATCAG TCAATTATT TTAAATTC CTTGCTTAA
TAGCCATTAC TTACTCACCT TTGTTTTTG TTTTNCCTT CAACTACTAG AGTACTGTAC TTTTGCTTTC ATTCTTCTA
TACATTCTGC CTTATCCTT AAATGTGTA ACTOGATAGT GCTAATATTG GTAGATAATC TACGCTAGCT GCTGTTCTT
GTACAGAAGT TGGTTGATAT CGCTGATCA CTTT

SEQ ID NO:2251: (Length of Sequence = 426 Nucleotides)

GGAATAAGGA GATGAGAGCA TGCTCTGCCA ACTGGCTGGG ACCTGAATGT GCTAGGCAAG TNCCACTACA TCAGCTCAAG
AACATAACA AAAATGTAAT TTAAAAACA GATGGTTTAA AAAATATCT GATAAAAT ACCTATCCCT CTCCTTGCT
GTGAAATAAT TTAAATAAT TAITCTAGAT GTAAAAATA TAATACAAA AAGTTTGTTT AAAGACACCT GTGTCTGTT
TGTTAAGTGT GCAGTCTGGG TCCCTTGGGG TGGAGGGAGC TGGCCAAGGA ATGGCATTGT GCAGAGGCAT ACCGGGAAGC
TCTCTGGATG CAACCCACC TCTACCGCTT GGCAGTCAAT GACCTGGGC ATGATGTTT TTCACTTCTC TGAGGGCTAG
GGCTTTGATT CTGAACATGG GGGCT

SEQ ID NO:2252: (Length of Sequence = 315 Nucleotides)

GAAAAGATAA ACAAATTA TAGACCATTA GTGAGATTAA CCAAGACAAC AGGAAAGAAG ATCTTAATAA GCTCAATTAG
CAATGAAATG NGAGCTACTA CAACTGATAC CACAGAAATA CAAAGATCA TTCAAGGCTA CTATGAACAC CTTACGTC
ACAACTAGA AACATAGAG GAGATGGATA AATTCCTGGA ATTTAAGAN TAATACAATG GACTTTGGGG AATCAGGAGA
AAGGGTAAGA GTGGGTGAG GGATAAAGA CTACACATTG CACACAGTGT ACACTTCTTG GGTGATGGGT GCGCC

SEQ ID NO:2253: (Length of Sequence = 335 Nucleotides)

AGATTTATTC TCATGTACAA AGCGGTCAGC CCACGGGACC ATATACGACA GTTGCACAGA GTCTAGAAA AACGCATCTN
TCTAAAGGCA ACTCAGAAAG GTAAAGCAGG TGGACCCCT CCCCCACCC ACAACGCACA CAGAAAGAAA CCGAGAAAAA
GAGAGAAGCC AGTGGCCGGG CTGACCCAG AGTCCCGGCC CTATGGGGTC TCCCAAGCCC CAGGGCACAG GTGGATATGG
CCTTGAAGAG AGAGCCCTGC CAGGGCINAG GCCAGTCTC TCACTGGCTG CAGGAATNGG TAAGGGGCTC AGGCCAAGGG
GAACACTTCA GGGG

SEQ ID NO:2254: (Length of Sequence = 380 Nucleotides)

GGAAGGCTCT GGAGAGGTTT CTGAGGATT ACITTGATGG CAATCTGAAG AGATACCTGA AGTCTGAACC TATCCAGAG
AGCAATGATG GGCTGTGAA GGTAGTGGTA GCAGAGAATT TTGATAAATA ATATACAATA ATCACATCCA CTTCCACCA
CCTACACAAA AAACATTCTA TACAGACTGC AGTACAGTGA TTTTITTTTA TGAACAAAA GGTCAAAATT GTTTCATTTT
CTCTCTGCA GATTCTAAGT AAAAAATGAC AAAATATGCA TAGAGATGTT TGTAAACCAA AAATAAATGT CTAGGGCCCC
GAACCATCT GAATGGGACC CCTCTCTCA GCCAAGGCA TTCCAAAAT AACCTGCAA

SEQ ID NO:2255: (Length of Sequence = 399 Nucleotides)

ATATAAAAG TGTTCGTG ATTCTNCAGA GCCCAGGAGT CAGTGTGGT GGTGGAGGG ACCTGCCCC ACTGGTTCAT
TTAACCTCT GTCTCGTGC CCTCAGAAC TCAGCCAGAA AGGCAAGGAG GAAATCAGAG CAGGAGCTC ATACTCTTG
TGATCTATC ATCTGTGAC CTCAGGGGTC ACATATAAG TCAGTGTTC TCGTCCCGC CGGATCTGCA CTGCCAAGT
GGATTGGGT CGAACAGCTT CATAACATC TTCAGCATTT TGTACCATCT GCTCCCCAAT GGCCAAATC ACATCACCAG
GNOGCAGACC CAGCCCGGTG TGCAGGGGAG CCCAGGATGA CTTTATGGGA TGAGTACANC ATGCTGAACA TCGGNAAG

SEQ ID NO:2256: (Length of Sequence = 371 Nucleotides)

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TTTTTTTTTT TAACTGTAAA TGCTATTTTA TTTTAAACAT TTTTGTFTAC AAAAAAAAAA AAAATCAATG ATTGGTACCT
 TTTTACACT CTCAGATTCC TGAATATGGA CAGATCTTCA AAGGGAGGAA GGAGTTCTCA TATGAAATTT AAGATAGACT
 GTCTGAAGG TTGTGGGTG GGGTTTTTGT TTGTGTTTAA ATTCTCTTTT GTTTTTAAGN CACAATAAAG CTAAAATGTC
 AAGTCTCTGG GAGAGATCCC CTTAAAGTTT CAGTCAAGGA GCATATCAGA GCACAGACAA GNGACCCCA GCTTGGTGCC
 CGCCGGCCCG TCCCGGCTGC CCAGGNGTAT TTGGTAGCGC ATGGGTGAG A

SEQ ID NO:2257: (Length of Sequence = 372 Nucleotides)

AACCTCTATGG CACTAATGTA TGATGGATTC ATTTCCAGAC TGTCGGCCAC GGAAGCACTT CTTTCATGGCC TCTGCCCTGG
 ACAGCAGCCT GTCTCCGGG CTCCCATGT TTTTACCAGC TTCTGCTGAG TTTCTACAAT CTTGAGCTCT GCTGAGAATT
 CTTTCTCTTG AAATCTCTCT ACCTAAAGCC CCAGCCCCCA AAAGAGCATG TCTCAGGAAC TCATTATGCC CTGAGTCAAC
 AAGAACTTGT TGATAAATGG CTTAAAAGTT TTTACAAGAA GTAACCTCCC TTGGTAAGGA GTAAATAATA GCTCTGGGAA
 TTTTCCAGAT AAAACTATTT CATTTCTCTG GTCAGTGGCC CCATGGGGAG AG

SEQ ID NO:2258: (Length of Sequence = 340 Nucleotides)

CTCAGCCTCC TGAGAACCTG GGATTCAGC CTCCCGAGAA CCTGGGATTG CAGGCACCTG CTGCCATGCC CAGCGAAGAT
 TTGTATTTTT TAGTGGAGAC GGGGTTTAC CATGTGGCC AGCGGGTCT CAAACTCCTG ACCTCGTGAT CCACCCGCT
 TGGCCCCCA AAGTGTCTGG ATTACAGGGG TGAGACACCA CGCTCGGCT TTATATATAT TTTNAGAGAG GGGTCTCAT
 TTTNTGCCC AGGCTGGTCT TGAACCTCTG GGCTCAAGCA ATCTTCCCGC CTCAGNCTCT CAAAGTCTG GGGATTACAG
 GCAATGAGCC NACCGTGNCC

SEQ ID NO:2259: (Length of Sequence = 394 Nucleotides)

CCCCCAGAT CCCACTGTTA GGAGAACGCC TCTGCTAACA TTTTCTCTAT CTGTATATCC TCTGGGAATG AGACCCACTA
 AAGGGCTAGA GTGTGTCTCA GTGTGAATTC CTCTTTCTCG ACTCCATCTT CGCGGTAGCT GGGACCGCCG TTCAGTCCGC
 AATATGCAGC TCTTTGTCCG CGCCAGGAG CTACACACCT TCGAGGTGAC CGCCAGGAA ACGGTCCGCC AGATCAAGGC
 TCATGTAGCC TCACTGGAGG GCATGCCCC GGAAGATCAA GTCTGTCTCC TGGCAGGCGC GNCCCTGGGA GGATGAGGCC
 ACTCTNGGCC AGTNGGGGT GGAGGCCCTT ACTACCTGG AAGTAGCAAG GCGCATGCT TTAGAGGTAA AGTC

SEQ ID NO:2260: (Length of Sequence = 359 Nucleotides)

TTTTTTTTTG AGATCTGAGA TTCTTTAAT CAGAAGCAG TGCGTCCAC AGTGTGCTCT TCAAGCCCCA AAGGGCAGCG
 CTCTAGGACT GCNTCCTTAG AGCGAGGCTC GGGCTCTTGG TAAAAAGCA TTGCTTGAT TTTATTTAAA CAATGGTGAA
 TCTTCAAGGT GCCAGTCTAC ATGCCCAACA GTCTTCCAGG NTTCAAGGNC ACAGTACCG TCACTCAGAG ACTGCCTCAT
 TTAGCAAGAG AGAAAAACAG TGACCACCAC AGAGGGCAGG GAGTGACAAA GCTTGTAGGC TAATGCTGCA AAAGCCGCTA
 GAAACTGGGG GCCACACACA AGNGCCANC AGGTGCGCC

SEQ ID NO:2261: (Length of Sequence = 360 Nucleotides)

TTTTTTTTTT GAGACAGAGT CTCGCTCTGT CGCCAGGTTG GAATGCAGTG GTGTGATCTC AGCTCACTGC AACCTCCGCC
 TCCCGGCTCC AAGCAATTC TCTGCTCAG CCTCTGAGT TGCTGGGACC ACAGGCGCAC GCACCAGCC AGGCTAATTT
 TTGTATTTT AGTAGAGACG GGGTGTACC ATATTGGCCA GGCTGGTCTC TCGAAATCT TAAATCCAAA CATTTCTATT
 CTCTAGATC CCTTGCTCAG GCGAATCCTT TCATCTTCC CTTATAGCTC ATCAGCATGT AAGTGTCTG ACATCTCTCT
 TCTCTTCCC TATTAGCTCT CTACTCTCTN CANTTACAG

SEQ ID NO:2262: (Length of Sequence = 348 Nucleotides)

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CTGTCAAAAA TGTATTATAT CAATAATTTT ATCAGCAGCA TTTAAGAAAT AAGAAATCAT TAGACAATAG AAGACAAACA
 TGGTAATGCA GTCAGGCCAG CACACAATAC ACOGTITTCA TCACACACTG TAACCTGAAT CCTGGCAAT TTCTAGAGG
 TATTAAATC ATACCTTATT AAGAATTATT GGGCCNAGG AGTNGGGGG TGGGGGGTT GCAATCTGTC CAATCAACAT
 CTGGCTCTTA CTTTCTCCCN GTAGTATTAC ATTTGTATAA TATTCTTATA GGAAACAAC CAACTCCATG TTTATAAAAG
 CACCATACGG TTTTCCATC CTGTACCA

SEQ ID NO:2263: (Length of Sequence = 352 Nucleotides)

CCCCAAAAGT TGACATGGTC AATGAAGAAA TAGGCAAACA GCAAAAAGTT GCAGTCATAC ACCAAATGAA AGAAGATCAA
 AGCAAAATCC CTGAAGGAAT CCAAGTTGAC TCTGACGGG TAATCACCAT AACAACTCCC ANTAACTTG CCACGCTCAG
 TGTTCGAGCC ATGCCCTTC CAGAAGAAGT CACCCAGNTT CTGGAAGAAA ATAGTGANIT GATTCGTTCT ATGGAGCAGT
 TGACATCCTC TTTGAATNAG GGTGAAATA CTCACATGAT TCATCAGAAG ACCCNNGGA AAATTNGGA ATTCAAAGGA
 AAACITTNAG CAACANCTAA CAGGNGNTG AT

SEQ ID NO:2264: (Length of Sequence = 381 Nucleotides)

GCTTACAGTC TAGAACAAGC TTTTCCAGCC CACAGCCCAG GATGGCTTTG AATGTGGCCC AACACAAAT CATAAACTTT
 CCTAAACAT TATGAGATCT TTTGTGATT TGTGTTTTAG TTCATCAGCT ATCATTAGTG TTAGTGTAAT TTGTGTGTGG
 CCCAAGATAA TTCTTCCAT GTGGCCAGG GAAGCAAAA GATTGGACAC CCTGGTCTA GAAGGAAAG CAAATATTAA
 ATAACCTCAG AAAGTGATAT TACAAATGT GGTGAGTTAT AAACACACTA TCAGGTGITA TAAAGGAAGT GAAGGAAGTG
 GTGAGGAAAT TCTTATCAG GNAGTGATAT TTANITGAAG GGCCTTAGGG GATGAGTAGG G

SEQ ID NO:2265: (Length of Sequence = 301 Nucleotides)

CACTCTTCTT CCACTCTGCC TTTCCACAGC AGTCAGTCTG GTCCAAGCCA CCATCATCTG TCACCCAGAC TACCATAGCC
 ATCTCCTAAC TGGTCTTCC ACTTGCCGTC TTTATTCTGC ACACAGCAGC CTGAGTTCAT ACACACAGT GCATTCATTC
 ATATTTTGCT TAAACTGTIT CAATGGCTTC CCATGGAAT TGGGAGTCTG GATATCTTCA CAAGTGTGIN GCATGGCCCA
 GGACCAATCT GGACCCCTT NCCTGTTTGT NCATNCATGC CTTCACCCAC TTTTGGCCT T

SEQ ID NO:2266: (Length of Sequence = 360 Nucleotides)

CGCTGCTATG CCCACAACA ACACAACTTT ATTCTCTTCC CAAACATCTG TCAGGCCTGG CCTTCTGAG CAGGAGCTGA
 GCAGGAACAG GGCCTGGCTG CCTCTCTCTT GCCACAGCTC TGACCTGGGC AAGGCTGGAA GCTGGCATCG TAATGGATGG
 GGGAGTGGGT GGAGGATCTG AGGGTCCCT GGGTAGGTTT CGATACCTTG GACAGGTGGG CCTCATCTG ACTTAGAACT
 CGGGAGGGG CCACCTTTC TTTCCCTTCT TCCAGCAGCA GCTCCACCAC CCTCCACCTT CTGTCTCTGA CATGTGINCC
 AGAAAACCCA GCCATGAGGG ACGCTNIGA GGAAGGTTCT

SEQ ID NO:2267: (Length of Sequence = 391 Nucleotides)

GATGGAGTCT CACTCTGTCA CCCAGGCTGG AGTGACGTGG CAAAATCTCG GCTCCGGACC CCCCCAAGAC ACATATGACC
 CACCACCCA TCTCTGACCA TGAGGCCACC CTGAGGTGCT GGGCCCTGGG CTCTACCTT GCGGAGATCA CACTGACCTG
 GCAGCGGGAT GGGGAGGACC AGACCCAGGA CACGGAGCTC GTGGAGACCA GGCTGTCAGG GGATGGAACC TTCCAGAAGT
 GGGCGGCTGT GGTGGTGCTT TCTGGAGAGG AGCAGAGATA CACCTGCCAT GTGCAGCATG AGGGTCTNCC CAAGNCCCTC
 ACCTGAGAA TGGGAGCTTG TCTTCCAGC CCACCATTC CCATCGTGG CATNATTGCT GGNCTGGTTC T

SEQ ID NO:2268: (Length of Sequence = 191 Nucleotides)

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CTTTCCTCTC CTGTTACAC AGTATTCGAT TATTTCATG GCTACTTTCA GAGGATCAGC TAGAGGCTGA TGTGTGTTT
CAATGGTTAT ATTATTTATG AACTGAGAGT AGAAGAAAAA TTTGAGAGCA GGTTTTGGGA AAAAATGAAT TTAGACAAAT
ATTTAGTAAC TGTATGATAT ATAACCCCC N

SEQ ID NO:2269: (Length of Sequence = 237 Nucleotides)

TAGAAGCATT TTTTAAACAA CACTCAACTT TGTGAACCCC TGAAGATTTT TTGACCGTTC CAAGTCTTAA TGCCACACCA
CTATCCAGC GAATTTATGC TACAACGGT AACAAAGACC AGAAGCCTGA AGAATTAAAA TGCCAACACC AAACCTTTCC
NTACCAGCTC TGGNCTATAT TGCTCCCATG CATTTAATAT ATTATNINGT TTTATANCCA CTCTAAATA TTCTCAG

SEQ ID NO:2270: (Length of Sequence = 223 Nucleotides)

AAAGGTTAAG GAATTTCCCT TATTTTTTAC AAATTAAGAC TATGCAGATT TCATATATTT CTGAATCAAA AACACCTTTG
TCTTCACAGT ATGAGTTAGA ATGCAGCCTG AGCTGAAAAT CAAGAACTA GAAAAGAAAG TGGTAGAGAT AACTATATTA
AAAANCTGTT AGGTATTTCC TTTAAAAGTA GGTGTTTTTT TTTTTTTNCC NCTTTTTTTT TTT

SEQ ID NO:2271: (Length of Sequence = 363 Nucleotides)

TTTGATGGGT GAGGCTGGTA GAGCCACTGG GAGAATGTGG GGCAGTGAGG GGAGGGACAT CTTCCTAGCA TCACCAGCAT
CCTGAGCTTT GTCTTGIGTT GGGAGTCCA CAAGGGCTGG TGCAAGGNIT AGCAGCTGCT ACTTGAACCC TAATCCCTGG
GTGGATGTGG TCTCTGTAA CTTAAGAGCA AATGTTGTIN ATGACATGCA CGGGTGGGCA GAGGTTGAAA AGAACAGGGG
TCTACGGAGG AGCCAGGCCA GCCACGTGAG ACCCTTCTTT CTAAGTTGGC TTCCTGTCCA TTCTGGGGA TTNGGGGAAA
GAACGACAGA ACTTACCTTC CATCTTCCTT CTCACAAGCA GTG

SEQ ID NO:2272: (Length of Sequence = 150 Nucleotides)

CTCCCCCTGT AATCCAGCG CTPTGGGAGG CCGAGGCGGG GGGATCAGGA GGTCAAGAGA TCGAGACCAT CCTGGCCAAC
ATGGTGAAAC CCCGTCTCTA ATAAAAATAC AAAAATTAGC CGGCATGGT GACGTGCACC TGTAGTCCCT

SEQ ID NO:2273: (Length of Sequence = 330 Nucleotides)

TATATTATGT TAATAAATC ATGTATAAGC AAAAGACCTA TGAAAGTATA AAACAGACCA ATGGATTTTA GTATAAAAGT
ACAAAACGTT CATTGAGGTG GGTCAGTTT TOCCACAAAA ACTAACCTTT AAGAACTAC CACTTATCAA GTTTTGGTAT
AAGGTATAAT ATGAAAGANG AAAATCCATA ATTATTTGAA AAACACGNCT TAAATACTTT CCTTTTTTCC TACTACATAT
CTCTATTAGG CTGGGTTTTT TTCACAATA ATTGAATACA AAAACAAATA TGAGNATTTA GCTGTAATCT ATTAATCCCG
ACATTACAGG

SEQ ID NO:2274: (Length of Sequence = 372 Nucleotides)

AAAAAGCCAG TTGCAGTGGT ATATGCCTAT TGTCCAGCT AATCAGGAGG CTGAGATGGG AGGATAGCTT GAGCCCAAGA
GTTTGGGACT GGGCCTGGGC AACATAGCAA GACCTATCT CTAAATCAAT CAATCAATCA AACAGTGGTA TGCCACCCAG
AATAAGTATC TTTTTTGAAG TAAAAACAA AAAGCGAAAT GGGACAACA GGTCGTAG TGGTGGCTGT CTGTCACTGA
CAATGAGGTC TCTGCAGAGC CGTCCCTAC CCTNCCCAAC CCCCTAGACA TCAGGTCCCT TTCCTAGGAA AATGAGAGCA
CAGACCTAGG NCCATGGNCT CCCAACTTT TTCTTCTCTT CACTACAGAT TC

SEQ ID NO:2275: (Length of Sequence = 370 Nucleotides)

CTTATCTTT TCCTGAGGAT GTTGGTTTGA TATGGATTGT CTTTAAGCAT CACTTGGAAA CGCTACAAAT AATGAGCTA
AATGTTAAG CAATTAGGAA ATAGGAATTT TTAATACAG AATTTTGCAC TGCAGAGTGT TTACAAGTAT TAAAGATTG

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TATTACACAA CTGTGTGTTAA ATTCTAGTAA GATAAATTGA TACTAAAGAA AACAAACCCA GAAAGATCAA GTGACTTGGN
 TCACACAACA CAGGNATTAA GANGGAAATT AGTATTCTTT GTTGGAAATAT TTTCCATTG AATAGTTACA GGAAAATTTA
 TTTGCATATT TTACAAATTA AATGTGTATT GGACATCATA GTGGGGAAAT

SEQ ID NO:2276: (Length of Sequence = 349 Nucleotides)

TCTCCAGGTC CTGGAGGCAA CCGCAGAAAC AGAACANIGC AAATGCCAGC ATTTCCGAG ATAAGCGTGG CCGGCCAGCT
 GCAAACACCC CTGACATGCA GCGTCTGTT TAAAATCTGG TTGCCCGCTG CAGCCAGTGG AGCTCAGAGG GCTGCCTGSC
 GGGTAAGGAC TCCAGGCACA CAGCAACAAG TGGCTGCAC CTCAAATCCC ACGTGAATA TGATGGGGTC CGAGCCAGCC
 AGTAACTCCA NGAGGGCTGT AGTGTGTAAG TTCGGCCAGA GTTINCAGAT ATAATANCAT TGGCCCCACG ACGTAGACCT
 GTGGCGGCTC AGGGITAAGA GACGGGAGC

SEQ ID NO:2277: (Length of Sequence = 182 Nucleotides)

CTTTATATAG ACTCTGGTTC TAGAACTCG CCTGCAGCCG CTGGCTGGAC CAGCACACGC TGACGGGGCC GGACTATTTA
 CAGGCCCATTT GCGGGCTGTA CCTTGGCCAC CTNCCGGCAC GGTGCTCAGC TGIGACGNCA AAATAAGTTA GGGCCGGCCG
 GCGGGGGCGG GCGGGGACG GG

SEQ ID NO:2278: (Length of Sequence = 276 Nucleotides)

GTATTATTTT CCCCAAATGA AGCAAAGCAA GTACTGGGGC GGAGTCATCA GAAATACCTT GGGAGGTGGT GGGGAGGGGA
 GTCGGGAGCA TCAGGGAAAA CCCATCTCAA CTCACGCTC TCAGGGGTG CGACTGGAAA NICTTGCGTT TTCCATCACT
 GGTGCAGAAA GAACTTCCCC AGGAATGGCC AGTGGCCTTT CGCCGTAAAC AAGGNCAC GCTCAGAGCA GTCTTCTCC
 TGGGCTGGGT GGACCGGAG GCGGAAGGA AAGCCT

SEQ ID NO:2279: (Length of Sequence = 193 Nucleotides)

TGCACCCATG GCCCCCTCA GAGCCCCAGG GCCCCTGAGC AAGCAGGGCT CTGGCAGCAG CCAGCCCATG GAGGTGCAGG
 AAGGCTATGG CTTTGGG GGAGATGATC CCTACTCAAG TGCAGAGCCC CATGTGTGAG GTGTGAAACG GTCCCGCTCA
 GGTGAGGGCG AGGTGA CCTTATGCGC AAG

SEQ ID NO:2280: (Length of Sequence = 401 Nucleotides)

GTGATTTTCC TGTCTCGTC TCTGAGTAG CTGGGATTAC AGGTGCCAAC CACCACGCC AGCTAATTTT TGTAGTTTTA
 GTGGAGACGG TTTGCCCATG TTGGCCAGGC TGGTCTGAA CTCCTGACCT CAGGTGATCC ATTCCCTCG GTCTCCAAA
 GTGCTGGAAT TACAGGCATG ACCCATGCG CCGGCCCCA CTGTTTCCTT TCTAATCGAG TGAGAAAATG GTCAGTATTT
 CTGTCAACAA AATTCAATGAG GCTCTTTGTA CGCACAGGAC TTCAGGCCTT TCTCTCAACA ATCGCCAAAG CTGGAGGCAT
 CCACAATGGA GNAACAACCT GGGGTTTTG AAAAAACAGG GAATGTTCC AGAATTNTTC TTCAAGAGTA TTTACATTTT
 T

SEQ ID NO:2281: (Length of Sequence = 217 Nucleotides)

AGCACGGGGA TTGTCCAAGG GTCTCCGGC GCCCAGGCA GTGGTGGTGG CAGCAGAGT GCCCACTATG CAGTCAACAG
 CCAGTTACAN ATGGGCGGCC CCGCATCTC CATGGCGTGG CCCATGTCCA TCCCGACCAA CACCATGCAC TACGGGAGCT
 AGGGGCCCCN CCGCGNAAC TNACAGCAC AGGAAACCAA ATGNATGTCC CTGCCCC

SEQ ID NO:2282: (Length of Sequence = 302 Nucleotides)

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CCGATGGTGA AGTGGTAAGA GGTCGATGGC CTGGGAGTTC ACTTTATTAT GAAGTAGAAA TTCTGAGNCA CGACAGCACC
TCCCAGNITT ACACGTGTAAA GTATAAAGAT GGAACAGAGC TTGANITGAA AGAGAATGAT ATTAAGNCTT TAACTTCCTT
TAGGCAAAAG AAAGGTGGCT CAACCTCCAG TTCCCCTTCC AGACGCCGAG GGAGTCGATC AAGGTCACGC TCCCAGATCCC
CCGGTCGACC ACCTAAAAGT GCCCGCCGAT CTGCTTCTGC TTCCACCA GGGCGACATT AA

SEQ ID NO:2283: (Length of Sequence = 314 Nucleotides)

GA AAAAGTGG AAGTCATCAC CGGGAGGAG GCGGAGAGCA ATGTGTTACA GATGCAGTGC AAGCTGTTTG TTTTGACAA
GACCTCACAG TCTGGGTGG AGAGAGGCCG GGGCTGCTC AGACTCAATG ACATGGCGTC CACCGATGAC GGCACACTAC
AGTCCGACT AGTGATGGG ACCCAGGGA GCCTGCGACT GATCCTCAAC ACCAAGCTGT GGGCCAGAT GCAGATGAG
AAGGCCAGCG AGAAGGAGCA TTGCATCAC AGCCATGGAC AACGAGGACC AGGGCGTGAA GGTCTTCTG ATCT

SEQ ID NO:2284: (Length of Sequence = 262 Nucleotides)

GGCGTGACAC ACGCGCCCGG CCTGTGGAG CATTTTAAAA TCTGATTCCT TCCCCCTGA AGTTCCGTT CAACCTTNN
CTGTGGTCAG GTTGATINCT TTAATTGCTA AAACAAGTCA AAATTCATA TCCATGGCAG CTGACAAATC AGACTTTGGC
ATATAAAGTA AAGGGTTTAT TTTTCCATT CTCTGTAAAT GGTTGTGINT TCACTTATT ATAGTGCTAT GAAGCTGGT
ACCTGGGAGA ATGGCATAAC TG

SEQ ID NO:2285: (Length of Sequence = 193 Nucleotides)

GTGAGACACA GTCTGTCTCT GCTGCCAGG CTGGAGGGCA GTGTCTCGAT CTTGACTCAC TGCAGCTGAT GCCCCCTGGG
TTCAAGCGNT TTTCCACCT CAGCCTCCAA GCAGCTGGGA TTACAAACAT GNACCACCAC GGCTGGGTAA TTTTGTGTC
TTTAGTAGAG ACGGGGNTT GCCANGTTGG CCA

SEQ ID NO:2287: (Length of Sequence = 342 Nucleotides)

AGGCTGGAGT GCAGTGGCGC AATCTTGGCT CGCTGCAAGA TCTGCCCTCC AGGTTACAC CATCTCCCG CCTCAGCCTC
CCAAGTGGCT GGGACCACAG GCACCCACCA CGCTGGCTA ATTTTTTTTG TATTTTGTAGT AGAGACGGG TTTACCATG
TTAGCCAGGA TGGTCTCAAT CTCTGACCT TGTGATCCG CCGCTCGGC CTCCCAAAGT GCTGGGATTA CAGGCGTGAN
CACTTGGGCC CGGCTTCAC CTGTTAGTTT TTCAAGAGT GTTCGTGATG TCCACTGTGA TAGTTATTTT GTGTGTCAA
CTGACTGGGC CACGGGTGC CC

SEQ ID NO:2288: (Length of Sequence = 343 Nucleotides)

TTTTTATTGT AATGAAATTT TAAAAGGCAG TTACATTAGT TACACATATA CACAACCGAC TTAATAACTG TTAGTCATAG
AGAACATTCA AGAAATACAA ATGATTATC CACAGCACAG TTCACATCCA TAAGAAGAAA GAGAAATGGT TAAGTACTTA
AACTGTCCAC TGACACCTGC TTATGAAATC TTTTCTTTC TTTCTTTT TAAAGGAAAC TGAGATTGTT AGATGAAGCA
AGCCGTCTG CTCCGCACA GCCTGTGAAA CCTCCATTTT GCCACTTCA AGGTCAGTGC CCCACAGACC CTGGGCTGTT
GTTGACCATA AACTAGCTT TGG

SEQ ID NO:2289: (Length of Sequence = 160 Nucleotides)

CGGGCCGCAA AGCTCAGCTC CTGGCGTCC AGGCCCTGGT GGCTCTTGAT GATCAGGTCC ACGGGGCTG CCACAGNTC
CTCTAGGCCC TTCAGCGCA NAGCGNCTCC AGCACCCTGT TGTGCTCCAT GTCCGTNAAC TGCTGCACGA AGAAGCATAT

SEQ ID NO:2290: (Length of Sequence = 310 Nucleotides)

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CCGACTCTAC TGAATAATACA AAATTAGCCG GCGTGGTGA CGCATGCCTG TAATCCCAGC TACTCGGGAG GCTGAGGCAG
GAGAATTGCT TGAACCCCGG AGGTGGAGGT TTGCAGTGAT CACACCACTG CACTCTAGCC TGGGTGACAA GAGCAAAACT
CTGTCTCAAA AAAAAAAAAA AAAAGNTTAA ATGAGGTCAT GAGGGTGAGA CCCTGATCCA AGCTCATAGG TGTCTTAGA
NGTGTCTTA GAAGTGTCTT TAGGACACTT CTTTCTAAGT NTCCTAAGTT GGGGAGCTTG CTCTCCCCAA

SEQ ID NO:2291: (Length of Sequence = 270 Nucleotides)

CAAGACAGGG TCTCATTCTA TCTATTGCCC AGGCTGGAGT GCAGTGGTGC AATCTTGGCT CACTGCAGAC TCAACCTCCC
AGGNTCAAGT GATGGAATTC CCNCACTTTC TCTTTGACAT TAAGANGACA CCACATATAG ACGGCTGTTT GTCAGTGATT
GCCCAGGNAT TCATGGATGC ATTINCTCTC ACAGAGCAGC AACTAGGGAA GGAAGCACCA ACTAATAAGC TTCTCTATGC
CAAGGNTATC CCAACCTACA AAGAAGAAGT

SEQ ID NO:2292: (Length of Sequence = 332 Nucleotides)

CAGTTGTCTT ATATTCTCCA CCTTCCCTTG GTTTCATTTC TCTTCGCTTC CTGAATGAGA AGTGCCCTGAG ATACCTTCAT
TTCTCTTGAA AGTATTGATC CAAGTTTAGA CAAATATCTC CCTCTTGTT GAGAGAATTC CTTATATGTG AAAATACCAA
GACATCTTTC ATATTAGCA GGCATCAAA TATTTGTCTC CTCTTTTTC GCATAATTAA GCCAGACTGA TGTTTGCAAT
TGAGTATCAT CAGCATGAGT AACNTTTTA ATCTCTCTTC CCTTAACCTAC TTGTTCTACA CTAGAGTCTA GGGTCAGGGT
ACGTACAGTG AT

SEQ ID NO:2293: (Length of Sequence = 255 Nucleotides)

GCACCTGACT TATGTGAGTN TCAGGCTTCA ATGCTGTGNT TAGAGCTACT CCTTCACACA AAATAGTTCA GAACATAGAG
AAGGACCAAG GTTAATAAAT GATTTTATC CCAACACTA AACATGATG ATGGGTAGAG GCTGCCCGAA GTACTGTGTA
AAGATGGAAT CTGAGATAGA AGAATGCTGT GGTCAATTAG TAATCTCTGC CCATGGAGGG ATTAGTGACA CATGCCCTGT
ATATTTGTCA TCTGT

SEQ ID NO:2294: (Length of Sequence = 236 Nucleotides)

GGCTTCAGAA GCTATTGGAA GATTCATATC AACTTACTAA TAATCAAGCA CTTTCATATT AAGACAATGT ATGATGTTA
GTAAATTTGA TTTTNCATA AAAGAAGTTT AAAATAAAT AGCTATTTCA AGAGNATCAT GGTGTGTCAGC AAATAGAAAT
GTTGTGCTTA ACTCAAATCA CAGTAATATT CTGTGGTAGT CAATTGATTT CTTTGAGCCN TTATCTTTTC ATCTGT

SEQ ID NO:2295: (Length of Sequence = 308 Nucleotides)

TTTTAATTTA ATCAGTAACT TTATTATAAC AAAACCTGTA TATTACCCAT TTAAACTCAT GTGTAACATT CAGTGATGTG
AGCTGTATTA AACCCAGGTA TTAGTGAAAA TTGTCATTGT AAAACCTGGT AACAGTAGAC ATCTATGGGT GGTCAAGTAA
TCAAGGACAC CTTTATTTTT AAACAATTTT ATATAATTCA TATCAATATG CAAAATTACC ATAAAAGATA CANGGATTA
TACATATTTA CATTTTATGA AATAGTTACT CTGAGGTGTA CAGCTGTAC TTTTCTAAAT ATTTACAG

SEQ ID NO:2296: (Length of Sequence = 279 Nucleotides)

ACCCCTCCTG GAGGCTTTCC CCTTCCCCAG GCCTTCCCTC AGGGCTACGG TGCCCCGCCA CAGTTCAAGT TTGGCTACGG
GCCTCCACCT CCACCGCCAG ATCAGTTTGC CCTTCCGGG GINTCCTCTT CCACCGCCA CTCCCGGGC AGCACCTCTG
GCTTTCCAC CGCTCCGTC TCAGGCTGCC CGGACATGA GCAAGCCCC GANAGCTCAG CCAGANTTCC CCTATGGTCA
GTATGCAGGT TACGGGCAGG ACTTGAGTGG CTTCGGACA

SEQ ID NO:2297: (Length of Sequence = 306 Nucleotides)

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CTGAGAAGAA AGAGTGTGTT GTAAAGGACA ATGACTTTGA GCCCAGAGCC CTGAAAGCTA ATGGAGAAGT TATCATTGAA
ATTCCAACAA GAGCTTGTGA AGGACAAGAA AATGCTATCA AGTCCCTGGN GCATGTACAA TTTNAAGCAA CAATTGAATA
TTCCCGAAGA GGAGACCTTC ATGTCACACT TACTTCTGCT GCTGGAACTA GCACGTGCT CPTGGCTGAA AGAGAACGGG
ATACATCTCC TAATGGCTTT AAGAATTGGG ACTTCATNGT CTGTTACAC ATTGGGGAGA GAACCC

SEQ ID NO:2298: (Length of Sequence = 307 Nucleotides)

AGTACACCTA GTATCTTTAC AGTACTATT AAGTATTTT GAACCTAAAG TATATATTCA TCTTAACTC CTGGAACAT
GAACCTCCC ATGTAATTN CTGATGAATG AAAAGGAAAA CTTCTTTCA AATAAGTGT ATCTGTTGCA AAAGTATGTG
ATTTAAAAAC ACATGTAAAT ATAATCTTAG CTCTAATGTT TTCCTTTGGG AGTTTGGGAA AAAGCAGTTA CATTTCTCTG
TTGTCTGGTT TTTATCATTT GAAAATTGGA AGGATTCAIT CTGGATTGCT GAGCTGCATC AGTAGGG

SEQ ID NO:2299: (Length of Sequence = 289

GTTTTTAATG CATTTTTTTT AAAGATTAAA GTAAAATGTC TCAATTGTAA AAAATACACA CCGGGCAAAT CCTTACCTGG
NTAATAAATA TCTACATCAC AGTACAATAA AATTNCTNCT CTATAAAATT TAAATATGGA TTATAGTCTA TCACTATCAA
AAGAAACACT ATGCTAATAT TTCCATATTA TTAATAATAC AGGAAAAATT ACGNGCTTAT TTTAGAACCT GATGCCATAG
CCGTTGGAAA GGGCAAAGAG ATTCAAATGT CGATCATCAC TCTCCATTT

SEQ ID NO:2300: (Length of Sequence = 371 Nucleotides)

CACCCATTGA AAAAGCAGCC GCCCTCCTTC CCAGGAGCTG CTGAAGAGAG AGCCTGCCAG AGCCTTGCCA GCAGGGACAG
CCTCTTAGAT ACCAGCAGCG TCTCAGAACC CAACGTGTCC TTGTCTCNC ACTGTGCGGA CAGCAACAGT GGTGACATAG
CTGTNATCGN GGAGGTCCGG ATGGAAAACC CAAAGGAGAG TAGCAGTTCC CTGAAGACTG GGAGGCACAG CTNAGGCCAA
GACAAACCAC ACGNAACCTA CCGACTGCTG AAACGCAGGA NTCTGATCAT AGAAGCTGTC ACCAATCTTC GCTTAATOGA
GAGTTTATTC ACGGTTTCA AGATGATCAT GGATCAGGAG AAGCAGGAAG G

SEQ ID NO:2301: (Length of Sequence = 287 Nucleotides)

ACTTGGTGTG GGGATTTGTT GTGAGTTTG CTGACACCTT GACCATTTT CACTGGCTGG AAATGAAAGG AACTTCCAC
TTGCTCTTIG AAGGCAATTC CATCTCTCC AGGGTCTTA TTCTCTCC ATATTCTCTC AACTCCCAA ACTTCTGAAG
AAGGGAGCAA ACTTTGGCCA CGAGGAAGGA GINGAGCTGC CTCTGTACTT GTCAGTCAC CTGCACTGGT TGAATCCACC
TTTCTGGGT CACGCCGCTG TGCTGGGTGG TCACAGCCTA GGACCCC

SEQ ID NO:2302: (Length of Sequence = 358 Nucleotides)

GGAACACAGG ATCCAACTT GTCGGGAAC TCGGAGAGAA GATCATCGTT GGCGCGGTCC TTGGTGGGCC CAAGGATGAT
GATGGGGCGA GCATAGTGCA CTCCATCTG CGTCACTGTC TCGTAGCTCA GAACCGAGTC TTCTCGACCC TCGATCCAG
AGCTGGAGCC CCAGTCTTG GCCTTTAACC TTGACCACTC TCGTCGCTCA ACCCGCGTT TGCTGGGGAT GAACCCAATG
TCGTGGTCT CACTGTCAGA GTGGACCCGC CGTGNCTGCC ACCACTCTC ATCACTAGCA TCGATGACAT GCAGCACATN
CCCAAAGCGG AAGTTCAAGG GCTGGCTCA GGAAGCCG

SEQ ID NO:2303: (Length of Sequence = 403 Nucleotides)

GTCAGGGGCT CCAGATCATC CTCCTCCAAG GGCCCCGAG GCGCTCTT GGCCTCTGGC TCCTGCTTGC CGCTGGCCTC
CAAGATGGTC ATGATGGAGT TAGGGATGTA AGCTTGTCTG TGGGGGGTGA AGGAGCGAC ATGGGCCAGC AGGGGCTCCC
GGAGCTCTGG GCACTINTCA AAGACGGCTC CCAGTCTCTG GGGGGCANT GCAGGATGAC CTGGAAGCTC TGGGGCTTTC
TGCGCTGGCA GCACTTGATG AAGCCCTCCC ACACCTTGGG GTACTTCCAC AACTGCTTCA TGATGAGGCG GGACAGGATG

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TTCATGACGG AAGCCCCCA GCGGGGGTA CATGGTCANG GACCTGGATG ACGGTCCTCA TGAGCAACAT GGGCAAGGGG
GCT

SEQ ID NO:2304: (Length of Sequence = 376 Nucleotides)

ATCTTGCTAT GTTGCCAGG CTGGTCTGA ACTCCTATTC TCAAGAGAGC CTCTGCCCTC AGCCTTGTA AGCACTGGGA
TTATAGGCAT GAACACCGC ACCCAGCCAA GATTGCCATT TTGTATGATG AGACTGGAAG GACCCCATG TTTCAGGATT
TTGCTACAAT ATACAAAAA CAATCTGTGA GACAGTGGCT GGGCTTTTTT CCTGCCCTGAT TAGTTCAGTG CACATACAAC
TTGGACCAGA GGATCTGGGT TTGAATCCCA TCTCTGATAC TTCCCAAACCT GAGCTGTTTT CCTTATTGT AAAGACTAAG
ATCGGSTATG TCAAAGAGCT CTGTAAACTC TCAACACATA CAAAGTACTA CTGCTG

SEQ ID NO:2305: (Length of Sequence = 354 Nucleotides)

CTGCCAGCC TGCTCTGGC CCCCTGGAAG CCTCCCCACA GCTGGTAATC TGGACTTAAG GATTGCTGGG CCACCGCCTC
TCTGCTACC ACCATTCCAT ATTTAAGTGG AGCCCTACG TAGAAGGCC CCGGGGCTTT ATTTTAGTCT CCTTTTCAGG
GATGTCTGG GCGGGGAGG GGGTCTTGG TGCTACAGCC CTCTCCCCAC CCTAAAGGG ACGCCGACG TGTTTGCTGC
CTTCACCACA TATTAGTCT TGACCTGGC AGGGGACCC ATGGAAGA TGGGAAGAG CAAATACAT GGAGACGAG
CACCTNCAG GGATGCTCG TTGGATTCC CAG

SEQ ID NO:2306: (Length of Sequence = 345 Nucleotides)

CCAAGATCCT AAGTAATCC AAATGCCCTA GATATCAATG AAAGCTACAC ACCATTGAGA TGGGCAAAAT TCTTTCTCTA
CAAAGGAGT AATCAAGTAA ATACCTGTCC TCTTCAATG GACTGTGCC TATTGAGCAT TGTGGATGAT GTGTTTTCAG
ATTTCCAGGT GAAGTCTGA CCTACCTGT TTGGCCAAAG ACGTAAATG AGAGGAAAG CCTTGGTCTT CCTGATCAAC
CAGCATTTAA CGAACAGTGG CTTAATGCAG ATCACTCAAG AGGACGATA GCANTGTAA AGGAATATAA GTAGGTGTG
GATGCTTTT TCCTAGACCA GGAAT

SEQ ID NO:2307: (Length of Sequence = 337 Nucleotides)

AACAGAATGT AAAAATAGC AAGTCAAAC CTGGTAGAAC TGCAATGAGA AACAAATGGA TTCAATATTA TNAGTCGGGA
AATTCACGC CCTCTATCG AAAATGACA GATCCAGCAG GCAGAAAT AGTAAGGACA TTGTTGAGCT CTGCAATACC
ATCAATCAAC TGGATATAAT GGACATCTAT AGACTACTTC AACACAGCA GAAGATACAT TCTTCTCAAG CTCACATGGA
ACATTACAA AGATAGACCA CACGCAGGCC CATAAGCAC ACCTTAACAA ATTTAAATA ATATAATCA TACAGTGTG
TCTCAAACCC NCAGTGG

SEQ ID NO:2308: (Length of Sequence = 216 Nucleotides)

GAGGAGTAA CTNTTTCTG AGAAGCATGC TTAGGTTG GACAGGAAG TGGTAAAGGC AATGCATCGT CCACAGAGGT
GGATGAAGCA GTNACAAAG AATGATAATT TNANCTGCTG GTGGCCTCIN CACTGCTGGA GTGTATGSCA GCAATCATCT
TACTCTCCAT CATCTGGTG GGGGCGAGIN GTGCAGGAAA GCCACAGGA TTCGCA

SEQ ID NO:2309: (Length of Sequence = 289 Nucleotides)

GGGGCTATGA AAATACAAA AACATTAGCA CATTCTAGT ATGTATGT CTACAGGCAT TTNCCAGCC CTATGAGAGT
NCTGCAATTT GAGAAGTACT AAAATGTATT GTTTGGTGAC AAGAACTGCA ATAAAAGAT AAATGATTIN CTGAATGTTG
TGGCAAAGCA GTCTATTTCC ACTGCAATTT CTGCTACTAT TAGCTTAAA ATTGCTGAGA CAAAGGACAA CCTTCTGATT
ATNCTGCTGA GATCTAATGC AAAGTCTCT CAGANGCTT ACTACACAT

SEQ ID NO:2310: (Length of Sequence = 359 Nucleotides)

CTGNGGGCTG CCTCTGTTG GTCAAATCCA ACCAAAAGCT AAGAGCTGGA GAGCTTGGGT GGTGCATCCA AGGAGGCTTG
CTTCTGGGG CACAGAAGGG AGAGTGAGA AGGATGGAAA GTGGCTCTAG GGGAGGAAAT GGAGAACATC CAGAACTTTA
TGTCACCTCT GGTGCTTGAA GGCCTTTCTC CAGGGAGACA AAAAGTTTGT NTTGGCTAAA GCTCCCTGGT TGCTCAGGAG
CCAAGGGTCA CATAATGTGC CAATGGGGT TTTTGCCCTCT GAAAGCCTCT GAGGTATAAT TACTTGCAAT GNNAACATCC
CTTTCTCTC TCTTCTCTG CCCACCTTC ATGCCAAGG

SEQ ID NO:2311: (Length of Sequence = 324 Nucleotides)

GTNGGGGCC GGCTGGGCA ACATAGACAC CATCTCTTA AACAAACAAA CATCATTAGT TTCTACATTC TACAAGGTGA
AAGACTAATT AGAAGTGAAT AATACCACTG AAATGTTGGT GTACAAATGG CAGCATAATT TGATTTCAC TAGATTTTAC
ACATTTGTGT CTATTTCAAA TAGGTACTTT TACATTTTCC TTAAGTGCAT CTGACACAGA GTGAATCACA GATATATGTT
GGTGTGAAA GCAGAGGTTA CTATTATTAA NCGAAAATTT TTGTGGTTT GCAGTCATCA TATCTAATGT GGTTACAGAT
TGTT

SEQ ID NO:2312: (Length of Sequence = 362 Nucleotides)

GNAGTTTATA AAGCTTTATT AAACATTTCA AACAGCTGTG CAACGAACAC ACCAAATAAA AGCTCTAGAA TAGCAGTCCA
GAGCTTTCAC AAGTATGGCC TCACAGTCCC ATTCCTAGA TGGACTGCCT CCAGTCTGT NCTCTGCTG GCCCATCTCT
CTTCCCTC AGGCAAGAGA GAGATGGATG GNTCAGACTG AAAGGACAGG CATGCTGATC TCCAGCAGGC AGGGGCCAGG
AGAAAGTCTC GTTTGCCAAC ACTTGTTACT GAAGCGCAGA AAAAGCAGCA AGTGACAGTC ACAAAGTCTT CCTGGGGTAT
TCTTCATAAC GTACAGTCTA TATGCGCAGG AAGGAGGAG CT

SEQ ID NO:2313: (Length of Sequence = 449 Nucleotides)

TGTAATTTTT AAATTAAGAC TGCCTTAGTG AGAAAATTC AGCAGGTGAG TTAAGGGCAC GAGGAAAGGG CCTTTGTGCA
GAAGTAATGA CATAGGCAAA TTGTCAAAGG AGAGGTTCCC TGGTGTATTT NTAGAAGAAA GTAGACCCAT GTNTCTGAAC
CCAGCACACA GTTCACTTAT GGTGGTTTTG AAATCTGCCC TGAATTTTNC ATGCATCTTT TAAATTTTGT GTTTATTTTT
NCAAGAAATA AATGAAGTCT TTATTTTINC AATGAGGGCA ATGTTTATTA AGAACAGCAC ATAAGGTAGA AAAGAAGGTT
GGTTCTAAT CTGTTTCAT CTCCCCACT GATCTTGAGT TTTAAAGCA TAGAGAGCAC GATCCTTCTG TGGGGTCTCC
ACTGTCAGAG AGCCTGINCA GATGAGCAGT CACACTGTTA CTCCACAGC

SEQ ID NO:2314: (Length of Sequence = 316 Nucleotides)

CGAGGCAAC ACAAGGGCT CCTTCTGCTT CTCTGACCCC ACCTGACGCA GGTAGTGGAT AACAGCCCTT ATGGCCTCCT
TCATGACGCT CACGAGCTGC ACCTTCTGTG GCTCCTTAAG CAGTGACTGC TCACAGCGAG TGCATTCTTG GNTCCCAAC
TCCATGAGG CATAGCAGGC GGTACCACA TCCCTTTCA CCTCGTGCC CGTNTCTCC AGTGCCAGCC GCACTTCCAC
GNACGNCAGA TTCACCAGCA GGGCCAGGAA CTGCTCCCG GAGCTGCCCG CCGGATCCA GTGGAGCCG CAGGTG

SEQ ID NO:2315: (Length of Sequence = 286 Nucleotides)

ATTTTTATGT GTAGACAGGC TGTGGGTTCC CCTCACTTAA ATTGAAGCTC TGTGAACCTT GAGACACTTA AGANTCTTGC
AAGTNGAAA AGTGGAGTGA AACAAAACCA TTTCTAAAC GAAATGTGT AACTNCNTTC AGTTTTACAC AGTGNAGAAA
TAAGTATTAA ACAAGTTAGT CTCAAACGGT TATATCTTAA GTTCATTTTA TTCCTGTTAT CATTAAGTAG ACATATCTTG
GTTTAGAGAG CAGCACACAA GACATTGTGT ACTNTTAAAT AGCTAA

SEQ ID NO:2316: (Length of Sequence = 414 Nucleotides)

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AATCATAGCT TACTGTGGCC TCGATGTCT GAGCTCAGGC GATCCTCTCC TTATAGCCTC CAGAGTAGCT GGGACTATAG
 GTGCGTGCCA CCACACCCCTG CTAATTINAT GTTTTGAAGA GACCGGGTCT CACTTTGTGTG CCCAGGCTGG TGTACAGACTC
 CTGGGCTCAA GCTAAATCAC CCACCTTGGC TTCCCAAAGT GTCGGGATTA CAGGTGTGAG CCACTGCGCC CAGCTCTGAT
 TTTTGTATTT CTTACTTAAAG GCGACATACT TAGTAGCTGT GCGTCTTGGG GCAGATACCT CCCAAAGCCC CAGTTCTGTCT
 ATCTATAAAT AATGTAACAA CAGGGCCCCG CTCGCAGGGT TGCTGTGTGC ACATATGTGT GTGTACGTAC CCATGTGCCT
 NTACGAGAAG GGCT

SEQ ID NO:2317: (Length of Sequence = 166 Nucleotides)

GCAGTGACTA TTATTAACAT TACAGTACCA AGCATCCGCA AGAGACAGTC ATTGTGINATT TTINATCAAG AAATAGGGCT
 GTTTTATACT GTTATGACA TCACTTTT CCCAGTGCAT TTTTCAAAA TATTAATAAG TTCATTCCTT TGTGCTTTTA
 ACTTCC

SEQ ID NO:2318: (Length of Sequence = 374 Nucleotides)

TTTATTTTAC ACTTACAAA GAAATCGCCC ACCCCTTTC CCCATTCCCC CAAAACAGTC TCTTTTACA AACATTTAAA
 AATTAAGACC AAATGAAGAT AGACAAGTAA ATTTCACTAC AATTATTTIN CAGGTGTAGCT GTCATAATTA GAGTTTAAAT
 TTCCTACAAG TGACCAATGT CCAAGTGACT TATAGGGAAA TCCTGATTAT CGGCCAAAGG AAATTCATA TTACAAGTTA
 GCAAATCTTT AGTACAAAA TAGTCCGTGT GTTGGAAATG CTTTTCCTTG TTACATAGGT CITAGGTACAG TCTGCTGTA
 ATACCTTAAC GNTTCCGGAT TCINNTCTCA CAAATG AATGTCCT GCTG

SEQ ID NO:2319: (Length of Sequence = 380 Nucleotides)

CATCTTAGTT CATGGTAATC TCCTTGGCAG CACTTATGT CTTGTGTGTA GAGCAAATGA TAGAGTCATC CATTCAAGTT
 AATTAAGAGC ATCTGCATTG CAAACCTGGT CACTAAATG CTCGCCAAT TTGAGGCTTT TTTCTGCCA ACACAAATTA
 ATTTTAAAG TAGCAGCAAT TTCAGGAGAG ACCAAATAAA GAAAGCAACA ATAAAGTTGC CTGTCTAGTG AGATGTCCCC
 AAACATACAA CTTTAAACAT ACCTTTGCTT TTATAGTAG TTCTTCACAC AACTGCCTT AATCAAAATG CGTGTCTCTT
 GCTCTGTAT TTTATGTTTT GGCTCTTTAG CAACCTAATT GTATGGTTAG ACAGATTCTT

SEQ ID NO:2320: (Length of Sequence = 348 Nucleotides)

GGAGTTCTCT TGTCCACGGA GAGCAGTGT GAGTGTATG GAATGCTAAA TCTTACCCCA AAGGGCAAGC AGGCTCCAGG
 TGGCCATGAG CTGAGTTGTG ACTTCTGGGA ACTAATGGG TTGGCCCTG CTGGAGGAGC TGACAACCTG ATCAATGAGG
 AGTCTGACGT TGATGTCCAG CTCAACAACA GACACATGAT GATCCNAGGA GAAAACATGT CCAAAATCCT AAAAGCACGA
 TCCATGGTCA CCAGGTGCTT TAGAGATCAC TTCTTTNATA GGGGGTACT ATGAAGTTAC TTCTCCAAC ATTAGTGCAA
 ACACAAAGTA NGAAGGTGGT GCCACACT

SEQ ID NO:2321: (Length of Sequence = 330 Nucleotides)

ATCTAGACTT TNAGTTCCCT GCATCTGCCA CCGTAGTTTC TAGCAGGAGT AGTGGGGGGA GTAATACAGA TTCTNCCCTA
 GAAGGGGACA CTGGTAACAT GTCCACTCT TGGATTAGCA GGGGTGGTC CAGGAAGATG ATATTINCNT CTTTGGCCCA
 CCCCCCTGGC ATTCAGCTGG ACCCACTAG GCCATCATGA GTGGCTTCTC CCTGTATCC CCAGGGGTCA TAGGATATCT
 ACACCGCCTT TNTGACCCCA CCTGCACTC CCATCCTTC CTCTCTCCC GTTCATGCC CTGCACTACA TAGCACAGCC
 GGGATGCTIN

SEQ ID NO:2322: (Length of Sequence = 352 Nucleotides)

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TTGACAAGTA AGTGTATATA TTTAAGGTGT ACAATGTGAT GCTTTGATAC ATACAGTGTG AAATGATTAC CACAGTTAGG
TTTAATAATT AACATATCCA TCATCTCACA TAGGTATGAT TTCATTATGTG TGTGGCGAGA ATCCTGAAAA TCAACTCTGA
GCACATTICA AGTGTACAAT ACAGTATTTA TGATAGTCAC CATGCTGTGA ATCAGATTGC CTACCTTGGT TAAAGTGCAG
ACTCAGGTGA AGGTCTGGAT GGAGGATCAT ACTTTAATTG ATTTAGACTC TAAAATAAAT GTATATAGTT ATTTTTGCTA
ACCTAANGAA CCTACTCATA AATGGGCTAG TG

SEQ ID NO:2323: (Length of Sequence = 316 Nucleotides)

GAGACAGAGT CTCTCTCTGT CGCCCGGGCT GGAGTGCAGT GGCACAACTC AGCTCACTGC AACCTCCGCC TOCCAGATGT
CCAAGTGATC AAGGGGTTTC ATTTGCTCTT GGGGGATTAG GTATCATTTG GGGAGGAAGC ATGTGTTCTG TGAGGTTGTT
CGGCTATGTC CAAGTGTCTT TTAATAATAG TGGAGACGGG GTTTCACCAT GTTGGCCAGG CAGGACCTCA GGTGATCTGC
CCACCTCAGC CTCCCGAAGT GCTGGGATTA CAGGCATGAG TCACCACACC CGGCTTCATT TATTTTCTTA TCCATG

SEQ ID NO:2324: (Length of Sequence = 300 Nucleotides)

GGGACAGGA GGTGACCTCG CGAGCAGACG CGCGCNCCAN ACAAGCAAGC CCGCCCCGGC CTCTCGGGAG CCGTGGGGCA
GAGGCTGCGG ANCCAGGAG GGCCGAGGCC CTCATGANIT CANINACCTG CTTCCTCCCC TTAGGTTCTA TCAGCCACAG
TNTCTGCAAG TTTCCAAGAG CAGCAGAAAA TGAACACATT NCAGGGGCCA GTTTCATTCA AAGATGTGGC TGTGGATTTT
ACCCAGGNGG AGTGGCAGCA ACTGGACCCT GATGAGAAGA TAGCATACGG GGATGTGATG

SEQ ID NO:2325: (Length of Sequence = 303 Nucleotides)

CTGTCTCAAA TAATAATGAT AATATTINCT TATGCTTACT TACTGTAAAG ATTACAGTAT ACATTACAAC ATATGCGTTT
ATTGACTGTT TATGTTATTG ATAAGGCTTC TAGTCAACAG TAGGTTACTA GTAATTAAGT TTTTGAGGAG TCAAAAGTTA
TGTGTGGATT TTCAACTGTG GACTTTGGTG CCTCTAACCC TGTGTGTTT AGGGGTCAAC TGIGTATTCT TTCGTGGNA
ACATTTTTAG ATGTTATAGC CTTTAGACAT TAGAAATGGA AATTTAGTTG AACTCGNGTG TTC

SEQ ID NO:2326: (Length of Sequence = 348 Nucleotides)

GTTGGTCTCG TGTGGCAGAT GACACAATCT CTCCTGTCCT TGGAGGCCAG CTCCTCCGTG GCCAACCTCA GGCCTCCCAT
GGCATCTCAG GGCTCTCCA GCCAGACTGG CGCATCCAA TTAACCTGAT GGTGGCTGAG CAGCTCAGCT CTGTGCCAGC
CCTGCAGGA GGCAGATCAT GTGTCCAGG CCCAGAGGT AGCGTCTCTC ACGGTTGCCN TCAGCCAGG GCAGCCTGTG
GCTGAGCGTC TGGTGGTCGG GCAAGGCCAC CGTCTTGCCG AAGTCTATCA TCCAGACCTT GGCCAGGCCG GTGTGGTCTG
GCACGAAGAG GAGGGAGCTT CCTACCAC

SEQ ID NO:2327: (Length of Sequence = 392 Nucleotides)

AGCTGTTTTT TCCTAGCTGC CAAGACTGTT GAGGAAGATG AGAGAATTCC AGTACTAAAG GTATTGGCAA GAGACAGTTT
CTGTGGATGT TCCTCATCTG AAATTTTGAG AATGGAGAGA ATTATTCTGG ATAAGTTGAA TTGGGATCTT CACACAGCCA
CACCATTGGA TTTTCTTCAT ATTTTCCATG CCATTGCACT GTCAACTAGG CCTCAGTTAC TTTTCAGTTT GCCCAAATTG
AGCCCATCTC AACATTGGC AGTCCTTACC ANGCAACTAC TTCACTGTAT GGCTTGCAAC CAACTTCTGC AATTCAGAGG
ATCCATGCTT GCTCTGGCCA TGGTTAGTCT GGAATGGAG GAAACTCATT CCTGATTGGC TTTCTCTTAC AA

SEQ ID NO:2328: (Length of Sequence = 256 Nucleotides)

ACGAGCACAC TCTTCACAGT GGGCGGAAC ATCAGAAAAT GGGAGCCTTC TTCTAATGGC TGTNCTTTTC TGTGGGAAA
AAAAAAAAC AATCCTCCA AACCACACCG GATGGTTGTA AAAAGCTGCA ACGGAACCTT TGGCACCNGA TGAGAAGAGA

GGCCTTTTAA TGCCATAGCT AGTGATGATT CANTCAAAGC ATCAGTCTAA GGAAGGATGA TGGGGGAAGG GACCNAGAT
CACAGNCTT CTCCTT

SEQ ID NO:2329: (Length of Sequence = 383 Nucleotides)

AGTAGAGACA GCATTTTATT ATGTTGGCCA GGCTGGTCTC GAACCTCTCA CCTCAAGTGA TCTGCCCTGCC TCGGCTCC
AAAGTGGGG GATTACAGGC GTGAGCACNC ATGCCTGGCC TTTTTTTTTT TTTTTTTTAA CGAAGTTATT TTTCTAGAGC
ATTCATAGTT TGTTTTTATA CAGTTAAGGT TCTCATCCAT CTGGATTTTT TGGTAAGTGT GGGGAGAATA AAATGAGGAG
CCNCIGTTTT TTTCTCCAAA TGGCATGTAT TGTCCCAACA CAATTTATTG AATCAATAAT TCATCTCTCC CATACGAATT
TAACTATATG AACTTTTACA TCAAAATTTT GGAACCTACA AGTAGGTTTA ACAAGGTGAG AAC

SEQ ID NO:2330: (Length of Sequence = 392 Nucleotides)

CGAAACGNIC TCAACCTATT CTCAACTTT AANTGGGTAA GAAGCCCACT GGTCAAGCATG GCAAAGCCCC AGCTCTAATA
AAAAATGCAA AAAATTGGCT GGGAGTGGAG GGGGGCGCT GTATCCAG CTACTTGGAA GGTGAGCTG GGAGAGTTGC
TTGAGTCTGG GAGGCAGAGG TTGAGTGGAG CCGAGATCAC ACCACTGCAC TCCACCTTGA GCAACAGACT GAGACTCTGT
CTCAAAAAA AAAAAAANT TATGCAAAGT GTCTTTTCCA ACAAAGTGT AATGAAGCTA GAAGTCAATA ACAGGAAAC
CTGGNGAAT TTGCAAGTAA GTGAAAGTTA AACAACATTC TTAACCATG GCTCAAAGGA GGAAATGACT GG

SEQ ID NO:2331: (Length of Sequence = 284 Nucleotides)

AAGAAAAGTA AATTCATCTT GCTCAGATC CTCTCTGGAA GAGTTTAGAA AGCAAAGAAT TCACCGACTC AGCAGGAAGC
AGAAGGAGCT GTTCTTCTT TTGACAGCA CAAGCTAATC CCTAGAGAG TGGGGATGTG GGAAAGGAG GGTAAATTAAT
TCTTTGGTCA CTGGTCACT GCTGAATAGC CTGGTCACT TTTGGCTCTC TCTATTTTA GGGGAAAAA TATTTTNGIT
TCTTTTTTTT AAAAAATAAA ATGTTCCAC AATGGGAGAA AATT

SEQ ID NO:2332: (Length of Sequence = 349 Nucleotides)

ATCTTAAAA GATTTTTTGT ATTTCCTTT GAGACTGGT CTCAGTCTGT TGCCAGGCT GGAGTGTAGC AGCTGATCA
TGGCTCAGT CAGCCTCTAC CTCCCGGGC TCAGGTGATC CTCCCTCTC AGCTCTCTGA GTAGCTGGGA CTACAGAGT
GTGGCACCAT GCGCGCTAA TTTTGTATT TTTTGTGGAG ATGGGTTTT GCCATGTGC CCAGGCTAGT CTGGAATCC
TGGATGTAG CCACTGCGTC TGGCTATTA TTTTAAATAT AGTCTCTTT ACTGCCAGTA GCTTTCATAT AACCTAGCG
ACTAGATTTA GTCACCACTG CTTAATTC

SEQ ID NO:2333: (Length of Sequence = 353 Nucleotides)

CCACCTCTCC GTTCTCTGCT TCTNAACCAC AGCCGCATCC TATTTGCAGC CCTCAAGATT AAGGATGAAA ATTTGACTTT
TTAATTTTAT TATCTTGTG CTTCCTTCCT ACTTCATTAG AATCATGTTA TTGGCCTAAA ATACTGTATG TAAAGGATGC
TCTGGGGCCC ATCTGGAAGC CTGCATCTC TGGGGATATA ATTACGCTAA GCAATTTTTC ACCAGGGACA GCATGACTTA
GCTTCTACCT GGGCATCTC TGGCAACACA GCGCTCAGT CTCCAAAGG GATTGGCTGC TGTCCCTTCA GGCCTCTTC
TTGNGTGTG GTGTGTGTG GTGTGTGTG TTC

SEQ ID NO:2334: (Length of Sequence = 279 Nucleotides)

GCGCTTCTA CNAGCTGCTG CTGCGCNCCT CATNCTGGTG GCGATGCTGC AGCTGCTCTA CTTGTGCTG CTGTCCGAC
TGCAAGGCA GGAGGAGCAA GACCAATATT TTAAGTCTT TCCCCGTCC CCACGGTCCG TGGACCAAGT CAAGGCGCAG
TCGNACCGC GCTGGCCTCT GGAGGCGTCC TNGAGCTAG CCGCATAC CCGNCTACA GGGGCTGCT GAAGACCACC
ATNACCCCA ACNATGTGAT CCTGGCCACG NACGCCAGC

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SEQ ID NO:2335: (Length of Sequence = 386 Nucleotides)

GCCTTTTGT CATGGTAGCA AAGTGGCTGC TGTGGCTCCA GGCATCACAC CCTCAATCAA GGTAGGAAGA AGAGGCCAG
 GGAGGTGTA GCCATGCTG TTTCTTTAT TGGAAAAGCT TTCCAGAAG CCCAGGTAGA CTTCCTCTC AATTTCATTG
 GCCACACCTG ATCACATAGC CATCCTAAGC TGCAAAGGAG ACTGGAACAG TGAAAATCTG GATTTACAGC CTCCACAGTT
 GGAGTGGCTG GAGATACAGA GTTGGGACGA CCCCTGAAAA GTGAACCAAG GTCGTCTGCA CGGCTGCCCT GGAGGGCGTG
 GTGCTTGAGG TCCCTTCTAC CTCTGGGCT TCATGGAATG ACTGTGTGCC TCCATGGAGC ACCTCT

SEQ ID NO:2336: (Length of Sequence = 258 Nucleotides)

CCCTAGCAAA CCACTGATGA CCGCTGGNA GGGGCCAGCC TGTCGGTCT CTGGGCTTG CAGCTNTTC TNTAGGGTA
 GCGGTGGTGC CCGGGTCACT TTCTGAATCT TTTTTTTTT TTTTCAAAAA GGAAAGTTT TAATGGAAAG TTGAGCCAGA
 ACTAAACCAAG GGAGCTGTCT GAAATCATAG CACCCATCC GGTGGCGGG GAGATCAACT CCGAGCTGTT TTTCCGAGGC
 AGTGAGGAAC GGTCCCG

SEQ ID NO:2337: (Length of Sequence = 338 Nucleotides)

ATCTCTTTC CCACTTCATA AAAGCAAAAT ATGTAAGACT AGCATCTGGT TTTTGTCCTA ATAAAAAAT CCCACAATT
 TCAAGATATC ACTCTAGCTT TCTAAAGTAG AAAGGCAATT CAGGCAACAA AAAATATTT TTAATAATCT ATAGCCCAA
 TCACAAAAG GTAAGGAAAG AACTTTCTTA GCAAGCTCTG GAGAAGACCT AATTGNGCA TCAAAATGGA GCTTTCAGAC
 ACTAATCAAG GCCATTAAIT AAAAAATTT TTTTCAAGAA ATAAGGCAGG TTGGATCTCT TTTCCACTT CATAAAGCA
 AAATATGTGG CAGACTCT

SEQ ID NO:2338: (Length of Sequence = 410 Nucleotides)

GGTCTTGCT ATGCTGCCTA GGCTGGTCTT GAACTCTCA ACTGCAGTCT TGACCTCCA GGCTCAAGTG ATCTCTTAC
 ATAGGCCTCC CAATGTGCCA GGATTATAGG CATGACCACC ATGCCAAGCT CCAGATGGTA TTCTTAATTC AGCTCACAAT
 GTGCCCTCAT CAGATTGCTA GTGGCCAGGA GTGAACAAT GAGTGACTTT AAGAATCAGG ACACCAGGAA TATGTTCTTA
 GAAAGTGAAG GTATGAGTGG AAAACCTGGG TTGGATTATG AACAAGGCCC ACATGTGTGC CAGAGTGGCC AGGGCAGGGA
 GCAGCAGCAG GTGCTGGTGA AAGGAAGGTG GATTACTGGG GGCAATGCT GTCTTTGTGT TATGGGTTC TTTTGAGGGA
 AGTAGATAAG

SEQ ID NO:2339: (Length of Sequence = 336 Nucleotides)

AGGGGAGGAG GGGGCTAAGG GCGCTGGAG GAAGAGCGAA ANAGATGGAA GCCTCCGGC AGAAGGCAGA GCTGGGGCT
 TTTTGAGAC ATCAGTATAA CGCTCAACTC AGCAGACGCA CACAGCAGAT CCAAGAGGAG CTGGAGGCAG ACAGGCGGNT
 CCTGCAGGCC CTCCTCGAGA AGGAGGACGA GAGCCAGCGC CTCACCTGG CCAGGCGGGA GCAGGTCTAT GCCGATNTGG
 CCTGNTGAA GCAGGCCATT NAGGNGCAGC TTCAGCTGGA GCGGGGCGG GAGGCAGAGC TGCAGATGCT TCTTGAGGGA
 GGAGGGCCAA GGAGAT

SEQ ID NO:2340: (Length of Sequence = 290 Nucleotides)

TTTATAGTAG ATGGGGGT TCTCCTTGT GGTGAGGCTG GTCTGAACT CCGACCTCA GGTGATCCAC CTGCTCGGC
 CTCCAAAGT GTTGGGATTA CAGGCGTGAG CACNCGCNC CCGCTTCAG TTTCTCTTA GGCGTTCTG TCAACCAAAT
 AGCTGCTACC CAGAGNGGCG GGGTTGACCT AGGCTGAATA TCCACTTTGT TTTATGGAT GGCTNCCTTC CCCCATTCGN
 CTTTNCAGA ATATCCTTTC AAGTINCANT TTCCAGGGG AGCTCTTGGG

SEQ ID NO:2341: (Length of Sequence = 298 Nucleotides)

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TTTGTCTTAT TACCCGATTT ATTAGAGAGA TCTCTAAAAA GACGGGGTGT GCGGGGGGTA GGTGGGCGAG GAACCTGGGA
 TGCAAACAG TGTGTGGGC CAGGAGTGGC TGTATGGTTT CANAGGCGCC CACCACTCTG GGTGTGAGGG ACACAGCACC
 CTCGCTCGG CGCTTTGGAT TATACGCAC CAGACCACGG GCGGAGGAA TGGAGTGGCA TCCCTGGGGG GAGTTAAGAC
 ACACGAGGTT TGCAGTTTCA TTTGTGTTCA GAATCAGTTT GGCCATAAAA ATGGGACT

SEQ ID NO:2342: (Length of Sequence = 316 Nucleotides)

CCTGAACAAG GTCGTGGTGG TGTGGAATTC TCCCAAGCTG CCATCAGAGG ACCTTCTGTG GCCTGACATT GCGTCCCA
 TCATGGTGGT CCGTACTGAG AAGAACAGTT TNAACAACCG ATTCTTACCC TGGAATGAAA TTGAGACAGA GGCCATCCTG
 TCCATGTATG ACGATGCTCA CCTCCGCCAT GAGGAAATCA TGTGTGGGTT CCGGGTGTGG AGAGAAGCTC GGGACCNCAT
 CGTGGGCTTC CCTGNCGTG ACCACGCATG GGACATCCCC CATCAGTCTT GGNCTTACAA CTCCAACCTAC TCCTGT

SEQ ID NO:2343: (Length of Sequence = 380 Nucleotides)

GGAAGAGGAG GAAGGTGGGA CCTTCATCAG ACCACTCCCT TCCCCATCC TCCAGGAGAG GGGCAAGGG CAACCCACCA
 TCTACCCACT TACTAACCTG GTCCTAACCC CCTTACTGTG CCGGTGTGTG TCGGTGTGCG CACGCTCTGG CTGTTTGTCT
 ATATGCTAG CTCATCTAGT TCTCTCTTT AAGGGATGG GGGTCAGGG CTAGGGGAGG GGGCTGAGTT TCCCACTTT
 AGGAGGAGGT GGGGGCTATT TCTATGCAA TAGAAATCAG CACATTCCTC CTACTTCCCT TTCTCCACT CCCCCATAT
 CTTTAAAGTG TGGAAACAGA AAAGGACCTG CATTTTTCCT ACAATTGAGG AGCTGACATA

SEQ ID NO:2344: (Length of Sequence = 282 Nucleotides)

GGGAATATAT TTAATGCAAT TTTATTGAAA TTTATTGTAA ATAAAGNTTT TNCAGTGGN CTAGAAAANC AGCTTGAATG
 NCATTCAGCA TTTATTGAAG AAGGATGACA TCCCTNCCAC TTAATGCACA AACTTGGTAG CTTTGAAGCA AATACAGTAG
 CACAGTCCGT TTGAAGATT GTCCAAAAA TTAGTCCATA TTTTAGTGGC TCAGTGTCAA GNGTCCCTC CCGTGCCCC
 CACTGTGCT TCTGCAGTGA TAGAAGGAT GAATGCTTAA TT

SEQ ID NO:2345: (Length of Sequence = 256 Nucleotides)

CTTTATAGGA AGCTGCAAAA GAAATGAGCA GAGCGNGATA TTTGTGGTAA GGGATACAAA GAACATACAA TTGTGTACTT
 GAGAGGTTTC ATGGAACATT ATGACCCATC CAATGAGAC ATCAACATTA ACAACAAAA TTANTGAGG AAGAGCAGTA
 TGAAAAATAT CTAAATGAGT GCTGTCCAAC AGAACTTCT GTGGTGATGG AAATGTTCCTA TATCTTTGTG CTAAATACAGA
 ATCTACCAGC CACATG

SEQ ID NO:2346: (Length of Sequence = 437 Nucleotides)

GTGGAGATTG ATGCTTCINT TTTTGTGTC CGCTGCTGCC CTCGCGCTGG GAGCCGAGCC GGAGGGAAGG CGGTGGAGAG
 ATGATTGCAG AGTTGGTGAG CAGCGCTCTG GGGCTGGCCT TGTATCTCAA CACCCGAGT GCGGATTTCT GCTATGATGA
 CAGCCGTGCT ATCAAGACTA ATCAGGACCT TCTCCAGAA ACTCCATGGA CGCACATTTT CTACAATNAT TTTTGGGGGA
 CTCCTCTAAC CCACAGTGGC AGCCACAAGT CCTACCGGCC ACTCTGCACT CTTCTTTTC GCCTGAACCA TGCCATTGGA
 GGGTTGAATC CCTGGGAGCT ACCATCTTGT CAATGTCTG TTGCAATGCA GCAGTCACTG GTCTCTTCAC AAAGCTTCIN
 CAAGATCCTC CTTTGGTGAT TGGATACGG ACATTCA

SEQ ID NO:2347: (Length of Sequence = 406 Nucleotides)

CCCGCCGCC GCTTCCGCC GGGGCGAGAC CCCCAGGTT AAAATGAGCC TGTTTGGAAC AACCTCAGGT TTTGGAACCA
 GTGGGACCAG CATGTTTGGC AGTGCAACTA CAGACAATCA CAATCCCATG AAGGATATTG AAGTAACATC ATCTCCTGAT
 GATAGCATG GTTGTCTGTC TTTTAGCCCA CCAACCTGCG GGGGAACCT TCTTATTGCA GGATCATGGG CTAAATGATG

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TCGCTGCTGG GAAGTTCAAG ACAGTGGACA GACCATTCCA AAAGCCCAGC AGATGCACAC TGGGCCTGTG CTTGATGTCT
GCTGGAGTTA CGATGGGAGC AAAGTGTITA CGGCATCGTG TGATAAACT GCCAAATGT GGGGACCTCA GCAGTAACCA
AGCGAT

SEQ ID NO:2348: (Length of Sequence = 363 Nucleotides)

GGCCTTTCAA GNAGCGCGG ANTCGCGGA CCGCTGTAAG GAGGTACAGC AGATCCGCGA CCAGCACCCC AGCAAAATCC
CGGTGATCAT CGAGCGCTAC AAGGGTGAGA AGCAGCTGCC CGTCCTGGAC AAGACCAAGT TTTTGGTCCC GGACCATGTC
AACATGAGCN AGTTGGTCAA GATCATCCGG CGCGTCTGC AGCTGAACCC CACGAGGCC TTCTTCTGTC TGGTGAACCA
GCACAGCATG GTGAGTINT CCACGCCCAT CGCGGACATC TACGAGCAGG AGAAAGACGA GGACGGCTTC CTCTATATGG
TCTACGGCTC CCAGGAAACC TTCGGCTTTC TGAGNCAGCA GTA

SEQ ID NO:2349: (Length of Sequence = 332 Nucleotides)

TCCTCTACT GATGCTTTC AGTAGATTCA GAAGTGATTG TGGCAACAT AGTATCTTGA AGGAAGAGAT CGTGTITTGA
TTAGCATCTC CGAGCGCTAG TTTTGTGTTT ATGPTCATGG TATTGAGGAA ATAAAGATCA ATTTGGACTT CITGCACCTG
TTAATACATC CTAGTTCTG ACTGCAGCAA AATGACTCTC AGTGCCCCIT TCTCTCTTA GTGATGCTT AAGATGACAG
CTCATTTCCC TTTTAATTAT TATCCACCTT CTTCCTCATC TTCANTTGT TTTCAAGTG AGGGACTTGG CCTCTACTGG
GACTCCACTG GG

SEQ ID NO:2350: (Length of Sequence = 339 Nucleotides)

GAGATGGAGT CTCACCCCTT CGCCAGGCT GGAGTGCAAT GGCACGATCT CAGCTCACTG CAACCTCTTC CTCACAGGTT
CAAGCAATTC TCCTGCCTCA GCCTCCCGAG TAGCTGAGAC TACAGGCGTG TGCCACCATG ACCGGCCAAT TTTTGTACT
TTTAGTAGAG ACAGGGTTTC ACCATGTGG CCAGGCTCGC CCGCAACTCC CGACCTCATG ATCCACCTGN CTCGGCTCC
CAAAGTGCCG GGACCACAGG CATGAGNCAC CGCACCAGA AAAAGCAAAT CTCTTAGTAT TTTTCTCTT GTCCAAAAGG
TTCTGACCAT GTTCATGAC

SEQ ID NO:2351: (Length of Sequence = 354 Nucleotides)

AGAAGGACCT GAGTTGTGGC CAACAACAGG CTGCAGAAAG GCAATGCCAT CCTGAAGATT TCTCAACTAA GAGTCTGCAC
CCATGACAGC CCACCGAGAC CCTCGCTCCA AGTTGTGGA GAAAGGGAAC CGCTTGCCA GCATGTGGAA AGACCCACG
ATGAGCAGCA GACACAGCAA CGCTGCCTCC TACATCTCGA CAGCATCTGT GTAAGACTCG CTAGCATCTG GTGCACACAC
TGTATGAGAC AGCAACAGCC AGAACAGACA GCTTTACGTT GATGAACACA CAGACGGTGG CGCATGTTCA GAGATGCCGA
GGGACGCCG CAGTTCCAA AATCACTCTT GSCC

SEQ ID NO:2352: (Length of Sequence = 378 Nucleotides)

GTGTTTGTGTT TAGTGGAAAC CTCAAATCAA AAACAGGCTC ACGGTCTGAA TAGTCTTCTG GTCTAAGCAA CTCAGCACCA
GCGCGCCAA GGGAGGGCG CCTTGTCTT GGCCCGGGA AGAGACGCG CTCCAGCCC GACGAGACC CCATGGCGCA
CACAGGCAGG CAGAGCTCGA GGTNCAGGCG GCTGCCCTGC GGGAGTGC TGGGGAGGG TCCCTNGCTG AGGCTGCACC
AAGGGCTNGG GAGAGGCCCA GGAAGGGGAG AGCGAGCTGN GAGCTTGGGA TGGAGCCGT GAGGTGGGA TGGTTNGCA
GAGGGCAGA GCCAAGGNA GAGGCAAGTT CTNGGGCCCC ACAAGCTTAT GGTGGCA

SEQ ID NO:2353: (Length of Sequence = 369 Nucleotides)

CTGCCTTATA TAATGTGGAT GCTGGGCACA GAGCTGTCAT CTTTGACCGA TTCCGTGGAG TGCAGGACAT TGTGTTAGG
GAAGGGACTC ATTTTCTCAT CCGTGGGTA CAGAAACCAA TTATCTTTGA CTGCCGTCT CGACCAGTA ATGTGCCAGT

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CATCATTTGGT AGCAAAGATT TACAGAATGT CAACATCACA CTGCGCATCC TCTTCGGGCC TGTGGCCAGC CAGCTTCCTC
GCATCTTCAC CAGCATCGGA GAGGACTATG ATGAGCGTGT GCTGCCGTCC ATCACAACCTG AGATCCTCAA GTACATGGTG
GCTCGCTTTG ATNCTGGAGA ACTAATCACC CAGAGAGAGC TGGTCTTCA

SEQ ID NO:2354: (Length of Sequence = 363 Nucleotides)

GGAGAGGGAT TGGCATCGGC ACCATGGAGC TCCCAGGGCT TAGAGATGGA GCAAAGTTGG CCTCACCTTG GGGAAOCAIT
CCTGCTCTG GATACTGGAA GACATTCCTG TCATCTNAG GATTGATTCC AGTGCCAAAC TGTCTCTTA TGTTCCTGT
CATGCTCTG CTCACCATGC TGTTCGGTT GGCCAAGGAT GCTTCAGGAT TTNCTGCTAG TTGTGAAAC GGGCTGGTAG
AAGCAGGTGG GGTTCCTGGG ATTTGTACCA TAGTTTNGTG GATAGGGGAA TTGCTGTGGA GCACCTTGAG GAAGAGGGG
GTINCCCAIT TNACTGGTA GTCCAGATGA GGGAGGGAGG GTT

SEQ ID NO:2355: (Length of Sequence = 403 Nucleotides)

AACCAGGAAT GGAGGGCTC CTCATGCTG AGGTAGAGTA AGACGGTGT AGGGGGCGGA CCGGGGGCG GAGATGAGCA
CCGGCCGCAC TGGGGCATCA TCCNGGCCA CCGGGACGA TGGGCCGTGG GAGGGCTCAG GCGGTGTGG TGGCCACAT
GCGAAGAATG GATTTTAAA ACATTCATA GCGCGANIT TTTTCAGCT CCTCTTCGT GGACACAAC TCAGGGCTCC
CTTGCTACTG GCTTCGGGG GTGGTCTCC CACTTCAGA GTCTGGTCT CACAGGACAC CGTCTTCCC TTCCCTTCCA
AGGGGCGAGN CCCACGNACC CTGCCCCAA AANTAAAGGA GCITTTGTT TGAACGCC AAGGCAAGC GTCCAGGGA
GCT

SEQ ID NO:2356: (Length of Sequence = 456 Nucleotides)

GAAAGAAAA CAATTGGTCA AACCACAAGA ACATGTTAC CTGAGCCTG AGAAGCCAAT TCAGATTCAA CCTTGAATTT
GTTTGATTTG GATTAAGTGA CGAAAAAGT CAATAGAACC ATTGANTTC AGAATCATA AAGTGTACT ATGCCAAGA
AAGAGTACA TGTGAATCAA GGTAGATAG AAAACATCAA GCCAAGAAAA CAACACANTT CACATAATTT TTTTGGCCC
GACAAACAT TTAAGCAGTT AATTTTGT TTGTTTGT TTGTTTGT TGAAGAACAN TTGTGGTCTT TTACATTTT
TTGGTGGGAG AGCAAATCT GATCAGCAT AGTGCTGTGA AATACTTTT GNTTATCAT CCCCAGTNT AGGGTGAGAT
CATGAGGAAA NTTTGGCAG TCCTTCTCT AGATTNGIT CACTNAAANT GCTTGG

SEQ ID NO:2357: (Length of Sequence = 412 Nucleotides)

CCACCCCATG CCAACAAGC CATATTGTCA ATAAATAAGG AATAACTGAA ACCAGACCTT TTAGGAAGAG ACAGAAATTC
CATTACCCAG GAAACCCTC AGTGAAGATG CTGATAGTTC TGATATGTTT TTATGCCCTG CCCCCTTCCC CCAAAAAACC
ACCTGCAGAA CCAAATGTTT CTCTCAAAG CCCATCAGCA CAGATTGATA ATAATATCAC TATCAAGCCA GGGCTAGTGC
TTCTCTACAT ACTGFACTGT CACAGGTACA AAGCAAGCCC TGGACAGATA CTGTCTCCCT GCCCCACAA ATCCAGGGAG
GAAAAAGACC AGGGANGCTT TGATTTCTT GGGATTAAA CCTCATGTTT AAAAAGNTA ATAAAGGTGC TGGTACTTGT
ATCTTCTTCC CT

SEQ ID NO:2358: (Length of Sequence = 399 Nucleotides)

AGATGGCAGC AGGTTCAAGT GGGGCCCTT GGATGCCTAA GCCTGGGGAC GACTACAGCT ACAATCAGTT TTCCACATAT
GGCGATGCCA ATGCCGTGG TGCTAATAT CAGGATTATT ACAGTGGTGG CTACTATCCT GCACAGGACC CGGCCCTGGT
CCCCCCCAG GAAATGCCC CAGATGCCTC CTTCATCGAT GACGAAGCAT TTAAGCGGCT GCAGGGCAAG AGGAACGAG
GGAGAGAAGA AATCACTTT GTGGAGATCA AAGGTGATGA CCAGCTCAGT GGGGCCAGC AATGGATGAC TAAGTCATTG
ACAGAAGAGA AAACCATGAA GTCATTGAG AAAAAGAAAG GTGAGCAGC AACAGGCCAG CAGCGGCGG AAACACCAAG

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SEQ ID NO:2359: (Length of Sequence = 352 Nucleotides)

CTTCATTAAAC AAGCTGCGAG AGAAGCTGGG TTGCCAGGAC GCCTTCCCG AGGTGTACGA CAAGATCTGC AAGGCCGCCA
GGACTGAGCT GGAGCCCGCC TGGAGAGACA GACACGTGTG AGTGGTCAGG CATCTTCCCT TCACTCAAGC TTGGCTGCTT
TCCTAGATCC ACACITTTCAA AGAGAAACCC CTCAGAACT CCCACCCTGA CAGCCCAACA CCACCTTCCT CCTGGCTTCC
AGGGGGGCAG CCCAGTGGAA TGGAAAGAAT GTGGGATTG GAGTCAGACA AGCCTGAGTC CAGTTNCCCG TTTAGAACTC
ATTAGCTGTG TGAICTGGG TGAGTCCCTT AA

SEQ ID NO:2360: (Length of Sequence = 359 Nucleotides)

TTTTTTTTCAG CATAGTCATC TTAGCTTTAT TGAGTAAGGC ATCCCAATCT CTGCTAAGAT TCINCTAAAT GAACGGCTGA
TTTTCTGCC AAACATGCA TTGGTCAAAG AGAAATCACC ACCTGGCCAC CCCATTCTGT CCCCTACAG GACACTAAGG
GTTCCTACAG ATAAAGGGAC GATGCATTCA TGCTGGAGA ACTAATCACA CCTGATTCT CTGGGATCTA AANTAATGTC
AAATTTTGAT TCACTTTATG TAAAGAAAA TCCTTTTNTT TTINTGCAA CCNCTTTCAA GANCAATGCT GCCCATCCCA
TGCAAGATGT TGTGTAAAG CCANCTCTG GTATACTAA

SEQ ID NO:2361: (Length of Sequence = 437 Nucleotides)

CTCCAGGATT CCAATCCAGT CCGAACTCAA CACGAGGGGT GGCACCTACA GGCTGGGGTC AATCTGGAAG ACTGCCTGTT
GTATGGCCTG GCAACTAAAA AATGTTTTT ACATTTTTAA ATGGTTAACA AATTTAAAT AAGAGAATAT TTCATGACAT
CATCAAATTA CAGGAAATGC AAATTTACAG ATCTACAAAT ACAGTTTGAT TGGGACACAG CCACCCTCAT CCGTTTGACG
GCTATCCCTG GCTGCTTACA GGGTCCACAT AGTCCATAAA GCCTGAGGAT ATTTACTATC TGGCCTTTTA CAGAAAAAGG
TCCCAAACA CTAAATCTGA AATGTTTTGC ATCAGAAACC CTGTGGGGC TTGTTAGGAA TGCAGCTCCC TGGTCCACA
NCCAGTCTCT GGATTCAGTA AGTCTGGAGC AGGCCCT

SEQ ID NO:2362: (Length of Sequence = 317 Nucleotides)

CTTCTCTGGA TGTGCTGGG CTGGACTGG CTAGAATCTT TCTCTGGAAT NTGTCATGTA CAGTGNCTCC ATCCTGGAGG
CAAGAGAGTT GGGAGTGGCT CGAATCANAG CGTGCCCAA GATATCCCTN CTGTTGCATC GTTTGAAGCT GAGTCCTGT
GTCINTACAC TGCTGCCACT GTGTINTCCT CQNTCTGCTT GCTGTGCTT CACGCCAGN CCGTCTCTG CGTGACANCC
TTATCCTAC CCTTGGAAAC CCAAGCCAA GTTGGTTCAA ACTGTTGGAG AACAGAGTTG GCCTGCATCT TGAACA

SEQ ID NO:2363: (Length of Sequence = 412 Nucleotides)

GTCAGAGTNT TGATAGTTCT ACTGGGAGAC CACAAAATGA CATGGTCCAT CCTCTCCTT ATCCAAAGAT GCATGGTTAA
AATAATATAG ATTAGGAATC ATCGTTACCT CCAAACAGIT AATTCAATTC AAATTTTAG CCCAGACTGG TTTTAAAGA
CATTTCTGC CAAAATTTT TGGAAATAA CACATTAAGG GTAGGTGTGG AGAAGGATTA ATGGATTCAT TTTTACTC
ACATCTGTTT TGGAAATATA TTTTATGCAA TAAAGCATAA ACTAACAGGT ATACTTATAA ATGTCTGGTT TTAGAAACAC
TAAAGATCT CCAATCTTAG GAGGCCITAA TTTGAAACTC TGCTTTTATT TGCTGAAGT AGTGGCTAAC CTGINTAGGC
ATCTACGAG GG

SEQ ID NO:2364: (Length of Sequence = 334 Nucleotides)

GAAATGATTT AATATTAGGA AAGGCAAGIN CCTCGAGACA TTTATTTAAG CTAATCTGTC CTTGATTTT GACTTTTACA
TTCATTACAC CCAGCCACAT TAGCCTGCAC CATTAATAAC ATTGATTCAA CCTCTCTAT TGGCATAGAC AATACATCTG
CCTTGITCAC TACTCTATCC TCAGCTTGGT ATTTCTCTAG CACAGAAGAA TGGTCCAGTA GATATGCTGA AGAAATACCT
GAATGCATAA ATAAATAAGA AATGAGAGA CTGAATGANT CAATTAATAC CTCAGTGTT ACCCTNGATA AGTTCTAGA
GAGGGGAGGT TCTA

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SEQ ID NO:2365: (Length of Sequence = 423 Nucleotides)

TTTTTTGCCA TTTAATAAGT ACTTTATTGA TATTATATCA CACAGCACIT TACAGTATAC TCAAAGATAG CCTAAATTAT
 GAATTAAACA TGCAAATATT TNCITTTCCA AAATGTGGAC AAAATGTCTT TTAGAGTGCT TTTGAACACT AGCCTTAGCT
 ACTAAGCATT CATGGGTTTG ATCTTTCTTG CGACATGACT TTAAGTAACT TAACAAAAAA TGTAGCTGTA GACAGTAATT
 GTTTGATAAA TATGANCAGT TTTAAATGG CACTGAATTT ACATCTTTAA TCATTTTAAT AGGGCCATCC ACAGCCTCTC
 TTGTGTCTCT AATTCTCAAC CTCGGGGTTC TTTAAAGGGC TGGTAAAGGC TCAGAAAGTG NCCAGCTCCA TGTGGGGTCT
 CTGTAAGNNG TCTATGTCTT CAT

SEQ ID NO:2366: (Length of Sequence = 294 Nucleotides)

CCAGCCATAC ACATGCCTTT ATTTAGATCA GCTTTTTC AATATCAGCC AAACCTTATGA GTTGACAGC CCAAAGTAAC
 CAGCCCTATT CCACTGAGTT AGTTTACCCC ACAGCAGTAG AACCAGTGC TGGTTTGGTT CCTGGCCCAT GGTGGGACAG
 CGTGAAGGTG ATGGAGGGCT CTAGCACAAG GAGGTGCTGA GTGCCACCG CAGGTGCTTC TGCAGACAGC CTAGAGCAAG
 GTAAGCAGGA GCACTCGNIT CAGAACCGAG GCGGCTCGGA CCAGAGGGCA GGCA

SEQ ID NO:2367: (Length of Sequence = 393 Nucleotides)

ACGGACAGAG CGAAGGGGAG AGGATGGTAG TGTCTGACTT CCACGTTTTC GTGAGGGATG TGTTCAGCA TGTGGATTC
 ATGCAGAAAG ACTACCTTGG GCTTCTCTTC TTCTTCTTGG GCCACTCCAT GGGAGGCGCC ATGCGCATCC TCACGGCGCG
 AGAGAGGCGG GGCCACTTCG CCGGCATGGT ACTCATTTTC CCTCTGGTTC TTGCCAATCC TGAATCTGCA ACAACTTTCA
 AGGTCTTTCG TGCAGAAAGT CTCAACCTTG TGCTGCCAAA CTINTCCCTC GGGCCCATCG ACTCCAGGT GCTCTCTCGG
 AATAAGGACA GAGGTGACA TTTATACTC AGACCCCTG ATCTTCCCG GGCANGGGCT NAAGGTGTGC TTT

SEQ ID NO:2368: (Length of Sequence = 187 Nucleotides)

GATCTTGAAG TTAACCACT GTTAGAAGTT TTGGTGGGA AGACAATINA GCAGTCTCTT CTGGANGTAA TGAAGAAGA
 AGAGCTGGCT AACCTGCGG CAGTACAGG TGAGTATGAA GAACTACGGA ATAGTGAAG TCCTGAAGTT CAACGACTTG
 NAGAGCAAGA NAGGCGACAC CCAGAAG

SEQ ID NO:2369: (Length of Sequence = 341 Nucleotides)

GTATCTTTAG TAGAGGCGGG GTTCCACCAT GTTGGCCAGG CTGGTCTCGT ACTCTGACC TCAGGTGATC ACCTGCCTCC
 TCGGCTTCCC AAAATGCTGG GATTACAAGC GTGAGCCACC GCGCTGGCA CCATCAGTTT TTGATCCTGA TACTTGTCTG
 TCTCTTGGT TCTCTCATC CCTAATTTAA CCTTGAACAC AAAATTCAAC AGGTTTGGC ATATAGAATA AAGATTATCA
 GGCAAAGGCG CACTCTTGAC CTAATGATAT ATCTACATTT CATTTCTGTA TCTATCAGCA ATATTTAATT TGTCTAGAAA
 TGATGAGAAG TTTAGAGGAG G

SEQ ID NO:2370: (Length of Sequence = 337 Nucleotides)

AGATCAAGAT CTCTCCAAA ATGCCAGTAT GCAAAGGACA CTGGGGCAG CCTCTCAACA TTTCTGCCT GACTGATATG
 CAGCTGATTT GTGGGATCTG TGCTACTCGT GGGGAGCACA CCAACATGT CTCTGTCTT ATTGAAGATG CCTATGCTCA
 GGAAAGGGAT GCCTTTGAGT CCTCTTCCA GAGCTTTGAG ACCTGGGTC GGGGAGATGC TCTTCTCGC TTGGATACT
 TGGAACTAG TAAGAGGAAA TCCCTACAGT TACTNGACTA AAGATTCAGA TAAAGTGAAG GAATTTTCTT GAGGAAGTTA
 CAACACACAC TTGGATC

SEQ ID NO:2371: (Length of Sequence = 320 Nucleotides)

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CGTGGCCGCA GAGGCAGCTG AGCATGAGGG ATGGAGCGTG CTGCTGTCTT GCAGGTGCCG TTAGCCCTGT TTTGCACTGG
TGGATTGATC TGCTCAGGCG CACAGGGAGA TGGCAGCA GAACCCGCG CCCAGCCTCG CTGAGGGCAT GCTCCCGCCT
CACCTCCAGA GGCTGTTGGG CGGAAGCGAG AGCTGCAGCA GTTGGGGCCA GCNTGGGACT GGAGGCCAG GTGAATCTTG
TGGGGCAGGG GACGGAGCTN AGGCTGTCCG GCCCGGGCCC TTCCACCCA AAGGCCCTAG AACCCTAGGC CTTCAATCTT

SEQ ID NO:2372: (Length of Sequence = 326 Nucleotides)

AGGCCTGGCA TGCGGCGAAA AGTTCCTGGA GAAGGCTCC CCTCCCAA AACACCCGAG AAACGTGGG ACCTCATTAT
TGAGTTTGAA GTGATCTTC CGAAAGGAT TCCCGAGACA TCAAGAACCG TACTTGAGCA GGTTCCTCCA ATATAGCTAT
CTGAGCTCCC CAAGGACTGA CCAGGGACCT TTCCAGAGCT CAAGGATTTC TGGACCTTTC TACCAGTTGT GGACCATGAG
AGGGTGGGAG GGCCAGGGA GGGCTTTCGT ACTNCTGAAT GTTTTNCAGA GCATATATTA CAATCTTTCA AAGTCGCACA
CTAGGA

SEQ ID NO:2373: (Length of Sequence = 361 Nucleotides)

AGCAGAGCTG AGGGAAGCG TAGGATGGCT CCAGCTTCCG GTCAGTGGCT ACATGGTCAG TTCCATGATG GCGTTGACGA
TGTCACITGT GTTGTNTCTC AGAGCCCGCA CGGCTTGGC CTTGGACACA TTGGCCTGCG CCATCACCAG CTCATGTCA
CGCAGTTCCA GCCCGCCTC GTCCACCTCT TCCTCTCTCT CCTCTCTCTC TTCTTGAC TCCAGCTCA CCGGGGCTT
GGGTGCTGAC TCAGGACCA AGGCTGAGG CTCTGAGGAC ACCTTAACT TCTCAGCTGC GGCTTTGTGC ACTTGCTGGG
ACAAGGTCTT CAATCTTGGN CTCGCCAAG ACCACATAAG T

SEQ ID NO:2374: (Length of Sequence = 281 Nucleotides)

TGACTCTAGT CTGGCACITA TTGATGACAT TGAGAGGCTG AAATATGAAA TTNCAGAGT GATGACAGAG ATGACAATC
TAACTTCCGT AGAGGAGAGC AAAAGACTC AGAGNACAA ACAGATAGCC ATGGGAAGAA AGAAATTCAT CATGNTCCC
AAAAAGGGAA TTCAGTTTCT AATAGAAAAT GACCTGCTAC AGAGTTCCCC AGAAGACGTC GCCCAGTTCC TTTATAAAG
AGAAGGCTA AATAAGACCG TCATTGGGA CTACCTGNGG T

SEQ ID NO:2375: (Length of Sequence = 391 Nucleotides)

ATGTTTAGTG CTTCCTTCAG GAGCTCTGGT AGGGCAGGTC TGGTGGTGAC AAAATCTCTC AGCATTGTGT TGTCTGTAAA
GGATTTTATT TCTCTTCAC TTATGAAGCT CAGTTTGGCT GGATATGAAA TTCTGGGTG AAAATCTTTT TCTTTAAGAA
TGTGAATAT TGGCCCCAC TCTCTCTGG CTGTGACAGT TTCTGCTGAA AGATCTGCTG TTAGTCTGAT GGGCTTCCCT
TTGTGAGTAA CCGACCTTT CTCTCTGGCT GCCCTAACA TTTTNOCTT CATTTCAACT TTGGTGAATC TGACAATTGT
GTATCTTGA GTTGTGTTT TCGAGGAGGC AACCTTTGTG GCGTTCTCT GTAATTCCC CGAATTTGAA A

SEQ ID NO:2376: (Length of Sequence = 324 Nucleotides)

CCAGCCCTCC CTCAGCTGGG AACACAGCA GGTGCCCTCA GACCCCTGNN TCTGCACAAG GGGGGCCTGC CCCCTGCCCC
CAGCTATATA CAGCAGACC CATCTGTCTG GCGTGACA AAAGCTGGA GCTCTGTGC CCAGTCAGGA GCCCTACAG
TCCACCAGCT GCGCGGCCG GTCCAGGGC CCACTGTGGT GCCAGNAGT TTNTCAAAC CNAGGGCCA GCCCAGCTG
GCNCTNGCC AAGCCCCAG CTTGTTTGT GGGATGGAG CTCCACACTG AGGCTGGTAA AAGCTTGAAC TCAACAGCAG
CAAT

SEQ ID NO:2377: (Length of Sequence = 357 Nucleotides)

GTTTATGTTT TTATTATGT ATTTAACTG ACTTATTGT GTATCCACT AGAACAATAC ATTACAATA TACTTGAGA
ACTGTGCCG GTGCGTCATG GGAGCAGAGA ACTTGTCAG TGAATAGTTG TTGAAGAAAG GAGTAAATC TCCCCAAAC

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CCTAAGGCA TCCTTTTGGT AGTGTGTGTC CCATAGGTAT GGCTGCTGAG CACCAGGGCT GCTCACCATG CTCCCAGAA
GCAGAGTCAG GGAGGCAGAC AGCAGGGTTT ATTAAGGTGC ACACCCATGT CTGAGCCCCA GCTCTCTCCG NCTTCTGTGG
GGAGGAAGCC CTCGGTCTT TCCGAGGAAC CTTCAA

SEQ ID NO:2378: (Length of Sequence = 454 Nucleotides)

GACGGGTCTT TCAATAGCAA GTTTTCACIT CATCGACAAC ATCAGGAAGG TGGTAACAAA CAAATGCTTT ATCAGGCTGG
ACTTCATTTC AAACCTCCCC AAAGCACAGA TCCATTACGC ACATTITAAAG ATACCATCTA CTTACTCAG GTGATGCAGG
CCCAGTGTGT CAAAACAGAA ACTGAATCTT ACCGCCGTAG TCGCAGCGAG ATAGTGGATC AGCAAGGGCA CACGATGGGG
GCACITTAAT GGCAGTTGAA TGACATCTGG CAAGCTCCIT CTGCGGGCTT CTCTTGAGTA CGGAGGGAAA GTGGAAAATG
CTTCATTACT TTGCTCAGAA TTCTTTGCT CCACTGTGTC CAGTAGGCTT TTGAGGAATG AAAACACGGT CTATATCTAT
GGGTGTGTCA GATCTTCACT CGGATTATTC GATGACACTC AGTGTGAGGA GTCC

SEQ ID NO:2379: (Length of Sequence = 224 Nucleotides)

GGAAGAGACC TCACAGGTA TTAANGTGT ATTTINIGGA CTTGGGCTTG GCTGGAATGC TCAGGGGTCC TGAAGATCCT
ATTATAGCTT CCTTCTGTG AACCATTAAAG AAAAGATGSC GANAGTCAAC ATAAC TAGAG ACCTCATCCG TAGNAGATCA
AGGAGCGGGG TGCCCTTAGC TTINAGCGGC GCTACCATGT CACTGINCCC TTTATCCGGC GGCT

SEQ ID NO:2380: (Length of Sequence = 274 Nucleotides)

AGGTTTGAAA TATCTTTTGG CAATAGATAA TCTTATTAC ATTAATACAG AATCATTTTA CATTCTTAAA TCAGACACTA
ATAGATGCTT TATTTTAGTG AATTATAAG GAAACAAAA AGGAACTGT TGAGAAGTGT TCTTCATTAA CNGTCTAAC
GNCAGCCGA AGATCCNGA ACACATGGAA ACTCGGNCAT GCINCCNGCA GAGGCTGGGG AATGGGGGT CTGCTCTCAC
TGAATGGTGG GGAACCTTCA ACTGCTTAGC CTGT

SEQ ID NO:2381: (Length of Sequence = 312 Nucleotides)

GCACAAACAG TTTTATTGTA TGANCCACAG TGACTAACAG GNTCAGAAGA CAGTGCAGAT ATTCTGAAGA AGGCACTGNG
GGAGGTAAGG GGGTATCACA GCAGGCAGCC TCCTCTGNTT CTNCCCAGT TCACAGATGA GTTCCAGGCA GGAAGTCTCT
GCAGTCAAC CACGGCGGCC TCAGAGGGAC AATTINTTCC CTCTAGAAG CCINTTCCAG TGTTCACTGG ATGNTTTGAG
GACAGNTCTG GGCAGAGGAG GTGACTCTGT GAAAGATGCT ATCTTAAGAT GGGGAGACTA GGCTGTGAGG AG

SEQ ID NO:2382: (Length of Sequence = 402 Nucleotides)

CTTAACTAA CTTGAAGCA AGTAATGTCA ACTTTGAGCA CTTTGTGAG TTTTGAAAA TCTTATTGT TGCTGCACAG
GTTAATAAAT TATCAATTTG TAATTACAGCA TGTGGTTCAG AGACACGGTC ACTGATTCAC ACCCAGTCCC TGCCACAGAC
CGTCTCAGAC ACGCACAGTG GGCTGTGTC ATGATTCACA CCCAGTCCCT GCCACAGACC GTCTCAGACA CGCACAGTGG
GCCTGTGCA TGGGTGTAC CTGGCTTTG GCTCCACGCT CACTCATAGC CATGTCCACA TGGGGGGCTT GCACACAGGA
TCACTCATAT ATGTACATGT ACCCACCACA AACGTGCAA GCTCCTTGCA CACATGCATG CACACAAAG TGGTACACAA
GT

SEQ ID NO:2383: (Length of Sequence = 406 Nucleotides)

GACCCTTTC ACTAGCCCT CTGGGTTG CAACATGCTT TCTCTCTAC CTTCTATTG AATGAGAAAA AACAGCCCAG
CCATTTTTTG CAAACAGCAA AGCACCAGAG TGATGATGGC TTTGCTCATC TCACTTGACT TTCACAGTAA CTCAGTTTGA
TGTAGGCAGT CCAGGCATTA TTATTTTCAT TTTACAGATG ATGCAACTGA GGCTCAGTGT GGTGAAACAT TTGGCTCATA
GCCACACAGC TGATAAGCAT CAGGGACTTG GGACCTAGGN CTTACATTT CAAGTCAGCT GTATCTGTCC CCAAGCCCCA

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CCAGACTTCA TGTGAAGGTG GCTGCTCTG GGGTGATGGT GGCTGGAGAG GCAGACTTTG AGGCTGCCAT GCTCTTATTT
TCAGAT

SEQ ID NO:2384: (Length of Sequence = 165 Nucleotides)

TTAAGACAAT AATGAAAGAT TCTGTACAAA GTTACCAAGT CTACAGGCTG AGCGAGCCAA GGGTAAGTGG GGCCTGATCC
TTGTGGACGA ATGTCNCCCG GAGAGCTGGC CTCACCTGGG GGAGGCACGT TGAAAAAGTA CACATTTACA GGGCTGGGA
AAGGC

SEQ ID NO:2385: (Length of Sequence = 297 Nucleotides)

GGTTTINATT CATCTCTTC TATTAACCTC TCTAAAGGAA ATTGGGCACC TGTAATCCCA GCACTTTGGG AGGCTGAGGT
GGGTGGGTCA CTTTINAGGTC AGGAGTTCAA GACCAACCTG GCCAGCATGG TGAAAACCCA TCTCTACTAA AAATACAAAA
NTTAGCCAGG CTGGTGGTGT TCGCTGTAA TCCAGCTAC TCAGGAGGCT GAGGCAGGAG AATTGTTTGA ACCTGGGAGG
CGNGGTTGC AGTGAGCTGA GATCGTGCCA CTGCATTCCA GCCCAGGGTG ACAGAGT

SEQ ID NO:2386: (Length of Sequence = 290 Nucleotides)

AAAAAATAAA GTGAATTTAT TGGTTCATGT AACTGGAAAG TCTCATGAAA ATGTCAGCTT CAGGAGAAGC TTGACCCAGC
AGCTTCATGA TGTATGGAAA TACCTGGGT TTTTGTTCCT NCTCTGCTAC TGTGGTATCA GCTTTATPCC AAGTCTGGCT
TCTTTGTGTG TTGCAAAATG CTTGTGCAGA AGAAGCCTGG GTCCATCTGT TAGGNITAAG TTTACTCTGT ATGCTGTAGT
AGTGGCTATG ACAAGATTAG GAAGTGATT TCTCTCTCCC ATATTAAAAG

SEQ ID NO:2387: (Length of Sequence = 356 Nucleotides)

GTCTCTGTGA TTGTACATG AAATGCACAT CCAAAACGGG TGAATTGGAA ACGACCTATT AGGTACACAG GAGTCCGGCC
CCTGGGGCA AAGCCTCATC GATGCCACG GCGGTGGCC AGCACTTTCC TTGGGCTGTG GCGTGTGCAC CCGCCTCCC
CAGCGGAGAG TCAGCTCACA CCCCAGGCC TTTAGCTCTC TGGCAGCAGC TCCAAAACG CACTTGAGGA ACCAATAATT
CCTTGGGGGT TAATAGCTGT TCCCCAAGAA AAGGGTTCTG TGGTCAAAT AAGTTTAGGA AAACATGGGT TAAAGAAGGT
TTAGGCAAGA AGCTTTTCTA TAGGGCTTGT TCAGAG

SEQ ID NO:2388: (Length of Sequence = 226 Nucleotides)

ATTATTGGTA TAAAACTTA AGACGGCATT AGAATCTTA AGAAAAGGTG TAAAATTTAA AAAGATGTGC AAACAACAAA
GAATGCCCGA CCTGAACCA GACCTAAAGC ACCTTCCANT TCTCCACAC ATCATGCCCC AACACCATCC AGCCCAATCG
GACACCAGGA CAGTGAGGGA CCGGTGGCTG TTCAGTGGGC AACAGATCTG GAAGGAAAGA TTTTCA

SEQ ID NO:2389: (Length of Sequence = 250 Nucleotides)

CCCAGCTAGG CCTTGGNATG GCTNCAGTGA GGAGAAATCC CGGGAACCTGT ATTGACACAA AGATTCTNAT TGCACTTGTA
TTTNTTATTT AAAGTTTGCA TGGTTTCTAA TAAAGGATTG AACATAAGT TTGTAGTGAA ATGGCCTGGN AGATTCCAAG
GGCTTCTCTN GAAGGGGGAT TNGCTGCAN TGTAGATTIN CCTCTGAAGG AGGCTGGCCC CAAACTTGEN CCTCCTCATG
ACCCCTCTCT

SEQ ID NO:2390: (Length of Sequence = 371 Nucleotides)

CCTTTTCTG GAGAACGGGG TCTCGCTATA TTGCCAGGC AGGTCTCGAA CTCTGGGCT CAAGCTATCC TCCCGCTCT
NAGCCTCCGT TTCCAGAAGG TCACCAAGTA ATATCTGNT TTCATCAGT GCAGTTAAGA TTTTNTTTC TTGAAATACT
GGTTTTCAAA CAGATCAGAA TTACCTGGGG AGCTTGTTTA AAATATAAT GCCCAAGGC CAGCTCCAGG ACATTCTGAC

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TCCATAGGTA TGTGGTAAGC CCAGGGAATC CAGGTAAGCT CAGGTAAGCC CAGGGTAAGC CAGGGAATTG TTAACAGGAA
GCTGGTGGGT TTCTGGCACC TNGACANCGA CTGAATCTTA GGTAGCTTGC C

SEQ ID NO:2391: (Length of Sequence = 200 Nucleotides)

CAGTTCAGCA GGCTATGAAA TTGTGGGC ATATAAANA CTGGAACCTT CAACAGGGTG GTTTTGAAAC TAGNGCATT
ACCAATAAAT GNCAACCCA CAAGGACAGT GCATTGTGTC ACATAGANGA TCTGGAAAGT ACAGCTGTAA ACTATAATCN
CCAGTCTCTG AGTTAGCACC TTCCACGNT AGTCTCTTAC

SEQ ID NO:2392: (Length of Sequence = 234 Nucleotides)

TCGCTGAGGT GTTTGGTTTG GAATAGGGAA AAAGGTAAGA GACTAACGTG GAAAGGTGCT AACTCAGAGA CTGGAGATTA
TAGTTTACAG CTGTACTTTC CAGATCTTCT ATGTGACACA ATGCACTGTC CTGTGGGTT TGTCAITTTAT TGGTTAATNC
TCTAGTTTCA AAACCACCT GTGAAAGTT CCAGNTATTT ATATGCCCAA CAAATTCAT AGCCTGCTGA ACTG

SEQ ID NO:2393: (Length of Sequence = 337 Nucleotides)

TCCAGAGGCG GATTGAGAAG AAAGGAGATC CACATGAAAT GAAGATCACC TCTGCCATC TACAGGACAT TGAGAATGCC
TATAAGAAAA CCTTCTCACC TGAGATGAGT GAAAAATGTG AGGNTTTACA GTATTCTGCA AGGGAAGCTC AAGATTCAA
AAAGGTGGTA GAGGACATTG AATACCTGAA GTTCGATAAA GGGCCGTGGC TCAAGCAGGA CAATGCACT TTATACCACC
TGCGATTACT GGTTCAGGAT AAGTTTGAGG TGCTGAATTA CACAAGCAAT CCTATCTTIN TNC CGAAGT CACCATTGGA
GCTCATCAGA CTGACCG

SEQ ID NO:2394: (Length of Sequence = 211 Nucleotides)

CAAATGTTTA TTTTATATAC AAAGAATTAT CATGGTTTIN CATTGAGTAG ATGCCCGGA TAATCCTCTG AAGGAAGAGC
ATTTAGTCCA ACTTAATGAA ACCGATATCC TTGCGTACT GACGGAAACA CTGGCGGCAC ATATTGAGGC CATATTTCCG
GATCANACCG TGCCGGTTTG AACAGACACG ACAAGAGCGA GAACCTGCG C

SEQ ID NO:2395: (Length of Sequence = 335 Nucleotides)

CTGAAAGCTG TAACACCCTC AGGTAATAAC AAAAGGGATT TTTATTTTAC AGCTAAAGGG AAAATAGGTG GAGAAGTTAA
AAAATAATGT CTGATCCTGT TCCTAAGTTC CAAACTATAG CCAACACTCT GATGCTGCTC TTTTCTTGT AGGACCAACC
GTCCAGTTT GCCTGGGACT TTCATTTT TACAGAGTCC CAAATCCTAG GAAACTGGAG CAACCTGGTAC AACTGGTAC
CTACTCTTGC CCTCTGGTA AATCAAGNCA ACTGTGACCA TCCAATGTGC CATCTTACAG GGNAAAGTTA TAACCCACTA
TTCCCTATA ACATA

SEQ ID NO:2396: (Length of Sequence = 223 Nucleotides)

AGGGAGATCC AGCTCCGTCC TGCTGCAGC AGCACAACCC TGCACACCCA CCATGGATGT CTCAAGAAG GGCCTCTCCA
TOGCCAAGGA GGGNGTGGT GGTGCGGTGG AAAAGACCAA GCAGGGGGTG ACGGAAGCAG CTGAGAAGAC CAAGGAGGGG
GTCATGTATG TGGGATTACA TTTTTTTTTT AAAGAAAGAA TAAATTAAT GTGATTAAAG TTG

SEQ ID NO:2397: (Length of Sequence = 379 Nucleotides)

CCATTACAAA GAATGTGGCA ACTTGCTTNT NCTAAAAGG AGGAATTGGA ACTAGAATGT GTGACTCTGT GGGGACTGCA
TAGGTTTGT AATTGACCTA TAGCTAAACC TTAATGTGTT TGTGTGCTA TACATTGCTT TCCGCAITTC AAGACATCCA
GACGCTATTA CCAACATTTT CCTGTGCAIT AACCTCTGCA TGTGAAAAC TTTAACAGTT ACTGAACATAT GTAAATATGT

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GAATTTTTTT ATTTAGGTGG ATGCATTTTT NGTCTGTTTA CTGCTCTTCT CAGCTTTATT CAATAAACTT GCATTTTAAG
GGTGTATTG GCAATTTTAA CTTAAATGT GCATCATGAT GGAAGGTGCA GACCTTTTT

SEQ ID NO:2398: (Length of Sequence = 421 Nucleotides)

GACAGGTGG TCTTACCCAC TGGTCCAG TCATGCTGTA AACAGGGCTT GCTTTGGAGT CTGTCAGACC TGGCTTAGAC
CCAGGCTCTG ACCAAATGGG TGAGTTATGC AGCTACTGG TGGCATCTAA TACCTTATCG CAAAGGACTG CCGTGAACAG
GAAGGAGGTG TCAAATTTGG CAGTGCCTGA TGAGGTGAGG CCAGGACCCA GGAACCTCTA TTCCCTCCCA TGCTCAGGAA
CAGTAAGTGT TCTTCTATCT GCAGAGGTAG ATGCTTAGCA CATCGTGGT ACTTCACTCA TGATTGCTAA AATTTGAATT
TGTGGATAAA GTCATTTCAA AAGTCAGATT CTAGGACCAA AAATACAATA TCTGTCCAAC ATGGAAGTGT TAGATCATGG
TTTTTCCTTC CAGCCCCAGG A

SEQ ID NO:2399: (Length of Sequence = 392 Nucleotides)

GATAAGCTTG ATATCGAAG TNCCACAATG GGTGAGTGT ACCAGGAACA CCATGAAGAA GACTTCTTTC TCTACATTGC
CTACAGTGAC GAAAGTGTCT ACGGTCTGTN AAGCTGCTGC CCTGAGCTG GAGGGGGGTC TCATTCTACA AAGAGAGAGG
TGGCCCCCTT TCTTGACCT CCTCCTCCTT CAAGCTCAAA CACCACCTCC CITATTCAAG ACCGGCACTT CTTAATGTTT
GTGGCTTTCT CTCCAGCCTC TCTTAGGAGG GGTAAATGGT GAGTTGGCAT CTGTAACTC TCCTTTCTCC TTTCTTCCCC
TTTCTCTGCC CGNCTTTCCT ATCCTGCTGT AGACTTCTTG ATTGTCACTC TGIGGTCAAC TCCAGTGGAT TG

SEQ ID NO:2400: (Length of Sequence = 366 Nucleotides)

CTGGGAAGG ACTGGCACA GTTCTGCCIN AAGTGGAGC GCTGCAGCAA GACGCTGACG CCGGGGGGCC ACGCGAGCA
TGACGGGAAG CCGTCTGCC ACAAGCGTG CTACGCCACC CTGTTGGAC CCAAAGCGT GAACATCGGG GCGCGGGCT
CCTACATCTA CGAGAAGCCC CTGNGGAGG GCGCGCAGT CACCGCCCC ATCGAGGTCC CCGCGGCCC AGCAGAGGAG
CGGAAGGCGA GCGCCCCC GAAGGCCNCA GCAGAGCCTC CAGTGTACC ACTTTCACCG GGGAGCCCAA CACGTGCCCC
CGCTGCAGCA AAGAAGTGT ACTTGCTTG AGAAGGTGAC GTCTCT

SEQ ID NO:2401: (Length of Sequence = 385 Nucleotides)

CATCACCCA GGGATTAGG TTCAAGTAGC AGCTGCTAAC CCTTGACCA GCCCTTGTGG GACTCCCAAC ACAAGACAA
GCTCAGGATG CTGGTGATG TAGGAAGATG TCCCTCCCT CACTGCCCCA CATCTCCCA GTGGCTCTAC CAGCCTCACC
CATCAAACCA GTGAATTTCT CAATCTTGC TCACAGTGAC TGCAGCGCA AGCGGNCATC CACCAAGCAT CAAGTTGGAG
AAAAGGGAAC CCAAGCAGTA GAGAGCGATA TTGGAGTCTT TTGTTTATT AAATCTTGA TTTTTTTTTT TCCCTAAGAG
ATTCTCTTT TAGGGGGAAT GGGAAACGA CACCTCATAA AGGGTTTCAA AGATCATCAA TTTTT

SEQ ID NO:2402: (Length of Sequence = 392 Nucleotides)

AAAGAACTTG GTATCTCTAT TAAAGTACAT GANCTCCAA GGAAATAGA GCGATTTACT CTCTCTCAAT CAGTGCATAT
TTACAAGAAG CACAGAGTTC AGTATGAAAT GAGAACTT TACAGATGTT TAGAGTTAGA ACATCTAAT GGAAGCACAG
CAGATGTCTA CTTGGAATAT ATTACGCGAA ACTTACCTGA AGGGGTGCC ATGGAAGTAA CAAAGACACA ATTAGAACAG
TTACCAGAAC ACATCAAGGA GCCAATCTGG GAAACACTAT CAGAAGAAA AGAAGAAAGC AAGTCATAAA GCCTTCAGGG
AGGCCATTTT TGCTAAATTT TTGAAATGAG GGTGGGCCAG ATGAGTATGT TTAAGTGGAG AGTGCTTTCC AG

SEQ ID NO:2403: (Length of Sequence = 179 Nucleotides)

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TCATTAAGTT ATACTCTTGG ATAGGAACAC TGAGGAAAAA TGAAGATGA GATTTCGAAT AGGGATTCTC TAAITCTCAT
GTTAATCTGT TTGTACCAT TTTTACTTGG TCCTTTGTGG ATCTCTTCTT TTTATTAGAT GATATTAAAG GGGATTAAAG
TTGTATGTA TGAATGTC

SEQ ID NO:2404: (Length of Sequence = 399 Nucleotides)

TTCCCAAAGT GGTGTGAACA TTTTACTCTC TACTAACAG TGCATGGGAA GCCAGTTTCT CTATATCCTC TCCAACATTT
GGTGCTGTCA ATCTTTTAAA ATTTTAGCCA TTTTGTGGT TGTATAGTGT TATCTCATTG CAGTTTAAAT TTGCCGATCC
CIGAATGTGT GTAGGTGTGT ATATGTATTA TATAATATAT ATATNAINCT TTCACTTATT TTGAAGTAAT TTCAAAGTTT
CCAGAATAAT ATCAAGAACT CCTGTACTCC CTTGCCAGA TTCCTCAATT GTAATGTTTT ATTGCATATG CTCCATGCCC
CATCTCCTC TCTACTTATA GCTTGCATTA GTGTTTTCTT GGAACCNITA GAGATGAAGG TGGAAAAAG GATGCGGGT

SEQ ID NO:2405: (Length of Sequence = 404 Nucleotides)

GGAACAGAGT GACCTGACCA CCCTAACATC AGCTGCATAC CAGCAGAGCC TGACTGTTC CACAGGAAGT CATCTCCTCA
GCATGCAGGG GAGCCCTGGA GGACACAATC GCCCAGGCAC CCTCATGGCA GCTGACAGAG CCAACAAAT GTTTGGACCC
CAAGTGCTTA CGACCCGGCA CTAGTGGGC TCAGCAGCTG CTTTTCAGG GACACCAGAG CATGGACAAT TCCAAGGCAG
TCCTGGTGGT GCCTATGGGA CTGCTCAGCC CCCACCTCAC TATGGGCCCC CACAGCCAGC TTATAGTCTT AGTCAGCAGC
TCAGAGCTCC TTCGGCATTC CTGCAGTGC AGTTACCTAT CTTCAGCCAC AGCCACAGGC CTATTGCTGT GCATGGGCCA
TTTT

SEQ ID NO:2406: (Length of Sequence = 280 Nucleotides)

AAGAGAGAAC ATTTTATTTG TCTATAAITA GGTAAACAG TTGGGTAAAA YCTTACTAAA AGAAAGTTAA GGTGTCTTA
ACACAAGATA TATAATGNCA TAAATYAGTT AATTAAATTT YAATTAAM CAGCTGCTTT GGAAATCCAA CATGTATACT
TCAAAATAAT TIACCTAAAT AACTTATGAA AATGGATGT ATTGTACAAC TCATCTCTCC TTATAAAAGG NGAACAAGG
ACATAGGAAA GCTGAAAAGA AGCTAGATG AAGATACAGG

SEQ ID NO:2407: (Length of Sequence = 350 Nucleotides)

TCCAAGGCCA ATATAAATTA CAGTATGCAA AACATACTGA CTGGCTGAGG TAAAACGCAC TGCTCCTGCC TCAGTCACC
ATGAGGGGAA ACACACATAT GCTTTTAAAA ACATCTGGCT TATAAAAAA CATCCCCTAG AAAGGCCTCC AGAGAGGGGC
TGTGAGGCTC ACCCTCTGCC GCGCTCAGGA GGACCCGCG GCTCAGCCCT GGCCCTCCA CTGCAGCCAT GGTGGCGCC
TCCCCCTACT GCCTGCCAG GGCTCTGTCC AGGTGCTCT TGATGGTGT GAGGAAGTCC GTGGTGTCA GGAAGTGCTC
GTTCAGCTC ACATTGCTGA GGCCGTGAAT

SEQ ID NO:2408: (Length of Sequence = 239 Nucleotides)

ATNGNTTGG GGTCCNAGA AATGGATGT CGGAAGAAGA AGAAGAAAAA AAATCAGCAG CTGAAAGANC CAGAGGCAGC
AGGCCTGTG GGGACAGAGC CCACAGTGA GACACTGGAG CCTCTNGAG TCCTGTNCCC GTCCACCACC AAGAAGAGGA
AGAAGCCCA AGGGAAGAA ACCTTCGAGC CAGAAGACAA GACAGTGAAG CAGGAACAGA TTAACACTGA GCCTCTAGA

SEQ ID NO:2409: (Length of Sequence = 331 Nucleotides)

TCTCTCAAG AATTTACAGC CAATCGACCG TCCTGTCTCT TTAAGGCTTA GGAAGAGCAG TGTGGCTGCC CCTTTAAGGA
GGCGTGTCAA CAAACATAT TGGACAGAG ATGGGGGCGA CCCATCGGA CCGACGGGC CTCTGACTCC AGCAATACAG
CGAATCAGCG GCTTTCGGGA ATACATTTT CGGAAAAAGA CTCTCTCTC GGTTCCTCTC TCTGCACAG TTGAAATTT

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CCCCAGTTTT TCCTGCAGAT CGGGAGTCGA GCAATGCTA CCCCCGCCTC CCGCACCAGT TGGGCGCTCC CGGATGATGC
CCTACCCCTT T

SEQ ID NO:2410: (Length of Sequence = 135 Nucleotides)

CTGCAGGACT TGCGAAGAGC GTGCATTCCC AGTGGGCGAA CGGGAATTCC AACGGAGAGA GGGTTATCTT GTGGGGGGCT
ACCCGTGGAG AGCAAGGCGC CCCAGGGGT TGNTCCGTG AAATTNAGGT CGCCC

SEQ ID NO:2411: (Length of Sequence = 330 Nucleotides)

ATGCTGCTCG GTTCTCTTGT CCCCCCACT TTACCGCGAA GCCCCAGCCT CAGAGTCCCC TCGTTTCTCC TTGGAGGGCG
TGACGGGTCC AGATACGGAG CTGTGGCTTA TTCAGGCCCC TGCAGACTTT GCCCCAGAAT GCTTCAATGG GCGGCATGTG
CCTCTNTCTG GCTCCAGAT CGTCAAGGGC AAATTGGCAG GCAAGCGCA CGCTATCGG AGTCTCAGC AGCTGTCCCC
AAGCTGGAGA AGCGACCTG CTGGCCCCCT CAANGGAGGC AGGAGGTGGA CTCACCTGTG CCTCAGCCCC CCAGGGCACC
CTAAGGATCC

SEQ ID NO:2412: (Length of Sequence = 583 Nucleotides)

TGCACCGGTG CACCAGGTGC CGGTGTGGAT TGINACAGN ACGTGGGTNA TGAAGGTAAC CACCTACCGN GTGCACGTGG
CCNAGCAGCA GGACGTGCAC CTGACTGTNA CGGAGTCTCG GCAGCATGAG CTCTCGCCAG ACTCGAACTT GCCCGTGCAG
CTCCTCACCA TCCGTGTGGC CAGCACCAAC CCTGCTGTGC AGGCCTTTGA CATCTGGCTG AACTCCACTG AGTACGGGGA
GCTCTGCGAG AAGCTCCGGG CACCCATCCG CAGGGCAGCC CATGTGGTCA TCCACCAGAG CCTGGGCGAC CTNTTNTTGG
AGACATTTGC CTCCTGGTA GAGGTCAACC CGGCTACTC AGTGCCAGC AGCCAGGAGC TGGAGGCTG CATAGGCTTG
CATGCAGACA CGTGCCAACG TGAAGNTGGT GAAGACCTGC CAGGAGTCAG CCACAGGGGA GTTCCAGCAG TTTTAATTNC
CGCCCCATGT TGGTGGCTTA ACTTGATNGG GAAAGTGNT TNGNCAAGCG GCAAGACCCC CTTGGGNTT NAAACTTNT
TGGCAAACGG GTTNCCTGCA TGG

SEQ ID NO:2413: (Length of Sequence = 203 Nucleotides)

TGTCCTCCC ACCCCCTAGC CATGCAGNGG TGAATNGGG AACCAGGNN GGGGCTGAG AAGCTCCAGG CCACCTTNAG
GGAATCCAGC AGGGTCTTTC TACCAGGAAG AAGTGCCCA GCTGCGTGGC CGCCGAGACC ACGCGGGAGG TGATCTGGTG
GGACAAACGT TCGTCTGCT CCCGATCAG GAGATCGAGT CTC

SEQ ID NO:2414: (Length of Sequence = 92 Nucleotides)

AAGGGGCAGG ATGGGGCTGG GAAGTCCAAC CCCACGCATT TGGGCTCAGC CTTCGACATG GAGGCTGAC AGCTGTTGTC
CTTTGGGGAT CC

SEQ ID NO:2415: (Length of Sequence = 401 Nucleotides)

CTTTTCCCTT CTGTGGNCCA AATGCANCAT CTINATACAC GTTGCTTAAC CTAGAANCGT GGCTCCACCG TGAATTCTAA
TTGGTCCGTG CTATCGAGGC ACTGTCCCT TAACTGGTCT CGCTCCAGTG GCCCCNACTG CTTTCTTCC TCTTCCAGNA
ATGGCTCTTC GGGCCAGAG TTCGAATCTC GCGATCGGGA TGGGACGGA GTACCGGCT GGGGTGTCCC AGAGCCCGGA
CTGAGCTGGG GAGTCAAGAC CTCGGGCGAT GAGGGCTGAG CAAGTCGGAG TCGTAGGTCC AGTCTTCCC CAGCTTCTCC
TGCTCCAAT CTGTGGGT CTGGGGTTC TTGCTCTCC AGCGGGTGG AGCTGCTGT GGAAGAGTCC TCCCGGATC
C

SEQ ID NO:2416: (Length of Sequence = 245 Nucleotides)

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ATGTAATACA GTGTAGAAAG CGATCATGTC ATAAGCAATG ATTCTGTACA ATCATNCNGC AGAAAATTAG TTTTGGAGAA
 TTCTTGGTAA TTGAAGACCA GCAGAGCACC CCTCCCCACC CGCCCCCTAA AAGTGCTTAC AATTACAGG GATYCTTTTC
 TTTTCAAAG ACCCAAAGAY ACGTGGTCAG AAAAMAAAAG CTGAAGTCT CAATGCCTAA TGTCGTGCAC ATTKNACAGG
 GACGC

SEQ ID NO:2417: (Length of Sequence = 384 Nucleotides)

GGTTTGGCAA GATGATGGAA CATCCCATAA GCCCAGGTGT GCAGCTAACC TTTAGAAGCT GGAAAAGGCA AGGAAACATA
 TTCTGTAGAG CCTCCAGAAG GAACACACGT CTGCACACAC TTTGTTTTTA GCTCAGTGA ACTGATTTTG GACTACTGAC
 CTTCAGAACT GTAAGATAAA TTCCGTGTGT TTTACGTTTG TGGTGTATA GAAGTTACAG AAATGAATAT ACTTACGTA
 GTTTAGAGAG AGATGGGAGG ATACTTTTTT TTCTCCCTTC TTTTGAAGG GAGGTAGGTC TCCTTAACTC CAGAGGAAAG
 ACTTGTCTTT CTTCATATAG GGGCCCTTG ATTCTTAAT CATGGGAGTT GTTTAGGAGA TTGA

SEQ ID NO:2418: (Length of Sequence = 1645 Nucleotides)

GTGATGGCTG CCTGAGGGG GACCATCATG TCGGAGACCG CATTTGGTGA GGTCTCACC CACAGCCCAT GCCAGCCTC
 CTGCAGACTC AGGTATCCA GCTGGTCGAT GGCTCTTTC ATACCTGGTG CCTTCTCTC TCGGGCTTGG CAGGCTTCTC
 TGGGGGCTC TCAGATGACT CTTTGGCCTT CTCTCTGTC TTGGCTAACT CCTTGGCCAG CTCTGAACGT GCCTCCTTGG
 CTCCCTCTTC TACCACCTCC TCCCGTTTGG CCAACTTGCT CAOGGCGTC TTGGTAGTGG CTTTGAGGCT CTCTTGCTA
 TCAGCCCGCT GTTTGATTTT GCTGGGCTTG AGGTTGGTAG GCACAGCCCC AGAAGCCAGG NCTTCTGCG TGGCCACAGG
 GTAAAGCAGG AAGTCCAGAT GCCGAAGCTT TTCTAGGCCC TCCAAGATCT TGTTTTGGGG AGCATTTTCT GGAAGGCA
 CACGCACAAT CTCTCAGTG GGATTGGCTG GTAGCCAGAC CACCAGAGCA GTGATAGAGG TAAGGTAGGG CACGGAGATC
 TCAGCCTCCT TCCCATTTGG CAGCAAGATG CCTGNTTGG CTTTACTATT GCCTGGCCAC TTTTGATGA GGAACATCAT
 CTCTTGCTG TCCTTGACAG GGTGAGGAC ATACATGTC AGCCGGCCCA CACCATTTT GTGAGAGAG GTGAGTGGCT
 CAATGGTATT GCTGACCACA CGATATAGAG GCTCAGCCTG GATGCCAGG CGGTTTAAGT GCTGCAGAGT GAGGCAGGCC
 TCCTCAATGC TACGCTTGGC TTTCCGGGAG GCATCAGGAA GCCGCAGCTT CTCAGGCAGG TTGAAAAGA CAACTCCAAG
 CTCAGGANAG ATAAGGTCT TCACCCAGTC GCTGTAACG CTAGAGCCCT GGNACTGCTC CTCTCTAGC TCTGCCACIT
 TGGCTGCG TAGTCCATTG ATGCCTGGCA GGTGTCTGCT CCCAATGTGT GTNAGTAGCA CCGAGTCAAT GCGTCCAG
 TNCCGTACCA GCTTCCAAA ACAGGACTTG CGATCAGAGC CACCATCCAC CAGGATGTTG AAACCATTTGA CAGCAAAGAG
 GGCAGAGTCC CCAAGACCAC CTGGGAAGAT GTAGCAACAA GGCTTGGAGA GCTTGAGGAA GCCCCCTGAG GTGGGGGGCT
 CTAGTAGGTC AAATGGGGAT GGCACGTCCA CAGTCTCAGA GACATACTCG GAGAATCAG CCACGCCGTC CATGGTGGGC
 AGAGTGGGCT CAGGGTTTAG CCGAGGTGC AGGGTCTCTT GGGAACTGGA TAATCCAGG TGGCTCCAAT CACCTTCCCC
 TAAGCAGGAC ACGTAAGGA AGGCCTGTAT CCCAGGTCT CTATTGCTGA GCAATGGGA AATCTGGGG TTGTGAAGGA
 CCTGGGCAA GTTTTCATAT GAGTAGGTGC CACTCTGTAG GATGAGGTCT CCCCAGGCT CTAACCTTTG CCCACTCAAG
 ATTAGTAGTT TATAAGCTGA TGAGCTGCTA AGAAGATGAT GAACCTCAGA GCTGATGCTG TCTGCACTGG GATTTACCAG
 GATGATGGTC TCTAGGATCT CACTCTGGTG GCAAGGGTC CTCTG

SEQ ID NO:2419: (Length of Sequence = 837 Nucleotides)

GGAAGGATGA GAAACAGATT TTGCTCACT TCATGGGCTG GCCTGGAATT GACGATGGTG CAAACCCAAA TNATCCTGAT
 GTAATNATG AAGATTATGG AACTGCAGCG AATGACATCG GGGACACCAC GAACAGAAGT AATGAAATCC CTTCACAGA
 CGTCACTGAT AAAACCGGTC GGAACATCT CTGGTCTAT GCTGTGGTGG TGATTGCTC TGTTGGTGGG TTTTCCCTTT
 TGGTAATGCT GTTTCTNCTT AAGTTGGCAA GACACTCCAA GTTTGGCATG AAAGGTTTGG TTTTGTTC TAAGATCCCA
 CTGGATGGGT AGCTGAAATA AAGGAAAGA CAGAGAAAGG GGCTGTGGTG CTGTGTGGTT GATGCTGCCA TGTAAAGCTGG
 ACTCCTGGGA CTGCTGTGG CTATCCCGG GAAGTGCTGC TTATCTGGG TTNCTGGTA GATGTGGCG GTGTTGGAG

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GCTGTACTAT ATGAAGCCTG CATATACTGT GAGCTGTGAT TGGGGAACAC CAATGCAGAG GTAACCTCTCA GGCAGCTAAG
CAGCACCTCA AGAAAACATG TTAAATTAAT GCTTCTNTTC TTACAGTAGT TCAAATACAA AACTGAAATG AAATCCCATT
GGATTGTACT TCININCTGA AAAGTGTGCT TTTTGACCCT ACTGGACATT TATTGACTTA ATTGCTTCTG TTTATTAATA
TTGACCTGCA AAGTTAAAAA AAAATTAAAG TTGAGAACAG GTATAAGTGC AACTGAATA GTCTAATCTA CATGTAACAC
ATATTNNGT ATGATTTTCT ATACTCTAAT CAGCACT

SEQ ID NO:2420: (Length of Sequence = 1843 Nucleotides)

GAAGCTCCGG CCCAGGTGGC CGCTGGCTGC TGAGCTCAGC CCAAGGTGCG GCTGTGGTGG TGGTGGTGGC GGCTGCAGGC
TTTGCTGCTG CTGGATGTTT GCTGGCTGCA GGTTCTGCTG CTGCATCTGT AAGTTTGTGT GCTGCACCTG CTGGGTCTGC
ACCAGGTGAG GCTGGGTGGC CAGCCGGGTG CTGGGCAGGC CCTGGTAGCT CATCATCTGG GACAGGGCGC TGGCAGCAAG
GCTACTGTGC AGCGGGCCTA CCATGCCATG CTGCAGGGAG GGGGCTGTGT TGCTCAGGGG GCCTGGTGGC ACACTCCCCC
GCAGAGGGTT GTATTGGTTC GGCACCATGC CGCTCTGCAG CCGGGACAGC CACTCGCATT GACCATTCAA ACTGGTGGAC
CCGNCACAG TGAAATTCAG GGCCTCTCG CTGCTNGAGC CCAGGACGGT GCTGGTGCCA GAGGCCACAG GCAGGTGGGA
GAGACGAGGT GGGCCAGTNT TAAAGGCCAG CCGCCGCCCC CCACCCANCG CCGCCATYTC GGGCTTGGCC GCCACGTTCA
GGTNCOCNAT GCCCAGGTGG GTGTGGGCA TYCCAGGCAG GTGGTTGAGG GGCACGGACG GAGACTGCTG GAACGGGGAG
GGCAGNAGTG GCGCGAGGCG CACGTCTGAC AGGTAGCCAT GGGGTGACTC CAGGGAGTCC ACGGGCGAGA GCATGCCGGA
GCTGTCCAGC AGGCAGNCT TGCCGTCTG GGACTCTTC CTCGTGCTT TGAGGTCTTT GGCTCTCTG CTTCCACAGG
CCAGGCCTTT GCTGCTGGG TTGCGGACCT TCTTGCCCTG CACGCCGGC TTGAGGCTGC CCAGGTAGCC GTTGGGCGAG
CAGAGCGNGG GGCACAGGT GGGCGTGCCC CCCAGCGGGC TCCGTGCAGC TGCGGGCTGC GCACCAGGTT GTACTGCTCC
AGCAGCCTCA CGATGTCTG ATGCATGCNC TCCNTGCGA TGTGCGCGG CAGGCGGTCC ATATGATCCG TGATGTCCCG
GTTGGCAAAG TGGTCCAGCA GCACCTTGGC GGTCTCTAG CTGCCCTCCC GGGCGGCCAG AAACAGGGGT GTCTCTCTCC
TGTTGTCTG CATATCTTTG TTAGCCCCGT TCTTCAGGAG CACAACCTGC GCATCCACAT TGTTCACTGC GCGGGCCAG
TGCAGGGCGG ACTTGCCAG GTNATCTAG GGTGTGAGT CCGCGTGTGA GTTGATGAGG TCTCCAGCA TGCCCTCCAC
GGCCAGGCGG GCAGCCAGGN TCAGTGGCGT CGTGCCATCA TGCAATGCGG CATCCAGGTC TGTGGCTCGG TTCCGGATCA
GGATCTTGGA AGACACCTTG TCGTCTGCA GACACAGCG CATGCAGCG GGTGCGGCC ATGTGTCTCT GATGTGTGGC
ATCTGCGCTG GCCTCCAGCA GCGCTTGGC GGCATCAGAG CGTGAGTAGC GGGCGGCCAG GTGCAAGGCG GTCTCGCCCC
TNCGGTCTGT CTGGTTGTG AAGCTGGCGC CCTGGTAGAT GAAGTCCGAG ATGACGGCGG GCGGTCTCTC CTCTCTCTCG
CTGTGCCCCG TCTCCAGGCC GCGCCGCTG CAGGAGCGA TCATGAGCG GGTGAAGCCA TCAGGCCCGC GGACATTGAC
GTCCATGCG TCGGCGTCAA CCTCACCTG GGGCGGTGTG GGGGCCATGG CANACATCG CAGGTACAG GCATCCAGGT
GCTGTGAGT CCACTGCGG TGGTCTGTCT GGTGTCAGG GTCAGGCAGA ACCACGGGCT CCTCGAACCG GAACCTCTTG
GTC

SEQ ID NO:2421: (Length of Sequence = 1452 Nucleotides)

CCAGCAACTC AAATTCACCA CCTCGGACTC CTGCGACCG ATCAAAGACG AATTTCACTT ACTGCAAGNT CAGTACCACA
GCCTCAAGCT CGANITGAC AAGTTGGCCA GTGAGAAGTC AGAGATGCAG CGTCACTATG TGATGTACTA CGAGATGTCC
TACGGCTTGA ACATCGAGAT GCACAAACAG GCTGAGATCG TCAAAGGCT GAACGGGATT TGTGCCAGG TCTTGCCCTA
CCNTCCCAA GAGCACCAGC AGCAGGTCTT GGGAGCCATT GAGAGGGCCA AGCAGGTAC CGCTCCCGAG CTGAACCTTA
TCATCCGACA GCAGCTCCAA GCCACCAGC TGTCCAGCT GCAGGCCCTG GCGCTGCCCT TGACCCCACT ACCCGTGGG
CTGCAGCCCG CTTGCTGCC GCGGTGAGC GCAGGCACCG GNCCTCTCTC GCTGTCCCG CTGTGGTTCC CAGGCCACCC
TCTCCAAGGA AGACAAGAAC GGGCAGATG GTGACACCCA CCAGGAGGAT GATGCGGAGA AGTCGGATTA GCAGGGGGCC
GGGACGGGA GGTGGGAGG GGGACAGAG GGGAGACAGA GGCACGGAGA GAAAGGAATG TTAGCACAA GACACAGCG
ANTCTGGGAT TGGCTAACT CCCATAGTAT TTATNGTGGC CGCCGCGGG GGGCCAGCC CAGCTTGCG GCCACCTCTA

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GCTTTCTTCC TACCCCATTC CCGGCTTCCC TCCTCTCTCC CTGCAGCCTG GTTAGGTGGA TACCTGCCCT GACGTGTGAG
GCAAGNTAAG GCCTGGAGGG TCAGATGGGG AGACCAGGTC CCAAGGGAGC AAGACCTCGC GANGCARGCA AGCCCCNGCC
CTTCCCCCGT TTTGAACATG TGTAACCGAC AGTCTGCCTG GGCCACAGCC CTCTCACCCCT GSTACTGCAT GGACGNAATG
CTAGCTGCCC CTTTCCCGTN CTGGGCACCC CGAGTNTCCC CGGACCCCGG GTCCCAGGTA TGCTCCCACC TCCACCTGCC
CCACTCACCA CCTCTGNTAG TNCCAGACAC CTNCAAGYCC ACCTGGTCCT CTNCCATCGC CCACAAAAGG GGGGGCAGCA
GGGACGAGCT TAGCTGAGCT GGGAGGAGCA GGGTGAGGGT GGGCGACCCA GGATTCCCCC TCCCCTTCCC AAATAAAGAT
GAGGGTACTA AAGTTGTCTT GGTTTTTATT TTATTATTAT TTTTTCITT TTCCAGTATA CTAGCTTGTC TTTTAAGAAA
GGGGATATTA AAAAAAAAAA AAAGACAAA GTGTTTTTAA AAAAAAGCAA CACCCACACC TGGTGTCTGT ATATAGTCAG
CTTATCTCGT GTTCAATCGT CTGATCTCTA CAGAGAGAAG TGGAAAATGC TGTATCAAGG GTGGGCTTAG CTGTGCCTTT
CCAATAAAGA TG

5 WHAT IS CLAIMED IS:

1. A purified polynucleotide having a sequence designated as one of:

SEQ ID NO: 316 - 2421, except SEQ ID NOS 650, 1834, and 2073;

10 or having a sequence complementary thereto.

2. A purified polynucleotide having a sequence designated as one of:

SEQ ID NO: 316 - 2421, except SEQ ID NOS: 485, 650, 1834, 2073, 2092, and 2353;

15 or complementary sequence thereto or, for those sequences over 150 nucleotides long, a portion thereof at least 150 nucleotides in length.

3. An isolated polynucleotide that includes a sequence designated as one of:

20 SEQ ID NO: 316 - 2421, except SEQ ID NOS: 485, 650, 1834, 2073, 2092, and 2353;

or complementary sequence thereto or, for those sequences over 150 nucleotides long, a portion thereof at least 150 nucleotides in length.

25 4. An isolated polynucleotide operably coding for a native human polypeptide or protein, which includes a region coding for the same amino acid sequence as a native human coding region corresponding to a sequence designated as one of:

SEQ ID NO: 316 - 2421.

30 5. The polynucleotide of Claim 4, wherein said SEQ ID NO is listed in Table 6 and is one of SEQ ID NOS: 316-2421.

6. The polynucleotide of Claim 4, wherein said SEQ ID NO is listed in Table 7 and is one of SEQ ID NOS: 316-2421.

35 7. The polynucleotide of Claim 4, wherein said SEQ ID NO is identified in Table 10 in a metabolic functional grouping and is one of SEQ ID NOS: 316-2421.

8. The polynucleotide of Claim 4, wherein said SEQ ID NO is identified in Table 10 in a structural functional grouping and is one of SEQ ID NOS: 316-2421.

5 9. The polynucleotide of Claim 4, wherein said SEQ ID NO is identified in Table 11 in a developmental control grouping and is one of SEQ ID NOS: 316-2421.

10. An isolated polynucleotide coding for a human protein or polypeptide, which includes a coding region corresponding to the EST identified as:

10 SEQ ID NO: 316 - 2421;
or a polynucleotide complementary thereto.

11. The polynucleotide of Claim 10, wherein the SEQ ID NO is 316-1000.

15 12. The polynucleotide of Claim 10, wherein the SEQ ID NO is 1001-1500.

13. The polynucleotide of Claim 10, wherein the SEQ ID NO is 1501-2000.

14. The polynucleotide of Claim 10, wherein the SEQ ID NO is 2001-2421.

20 15. The polynucleotide of Claim 10, wherein said polynucleotide further includes the entire sequence designated as any one of SEQ ID NOS: 316-2421.

25 16. An isolated polynucleotide comprising at least 150 bp of a sequence of Claim 10 and wherein said SEQ ID NO excludes NOS 485, 650, 1834, 2073, 2092, and 2353.

30 17. An isolated polynucleotide sequence, which hybridizes to a sequence designated as any one of SEQ ID NOS 316-2421, except SEQ ID NOS 485, 650, 1834, 2073, 2092, and 2353, or to a sequence complementary thereto, under hybridization conditions sufficiently stringent to require at least 97% base pairing.

18. A polynucleotide according to any one of Claims 4-17, in substantially purified form.

19. A construct in isolated form comprising a vector and a polynucleotide according to any one of Claims 1-17.

35 20. The construct according to Claim 19, further comprising a promoter operably linked to said polynucleotide.

21. A panel of at least 100 isolated polynucleotides having the sequences of Claim 3 or Claim 16.

22. An antisense oligonucleotide capable of blocking expression of any one of the polynucleotide-encoding sequences of Claim 10.

23. A triple helix probe capable of blocking expression of any one of the polynucleotide-encoding sequences of Claim 10 having at least a 10-base homopurine or homopyrimidine sequence, said probe comprising single-stranded DNA having at least a 10-base homopurine or homopyrimidine sequence and being adapted to bind to the major groove of double stranded DNA which includes said polynucleotide-encoding sequence.

25. The polynucleotide of Claim 1, wherein said SEQ ID NO is 913.

26. The polynucleotide of Claim 1, wherein said SEQ ID NO is 1039.

27. The polynucleotide of Claim 1, wherein said SEQ ID NO is 1395.

28. The polynucleotide of Claim 1, wherein said SEQ ID NO is 1567.

29. The polynucleotide of Claim 1, wherein said SEQ ID NO is 1667.

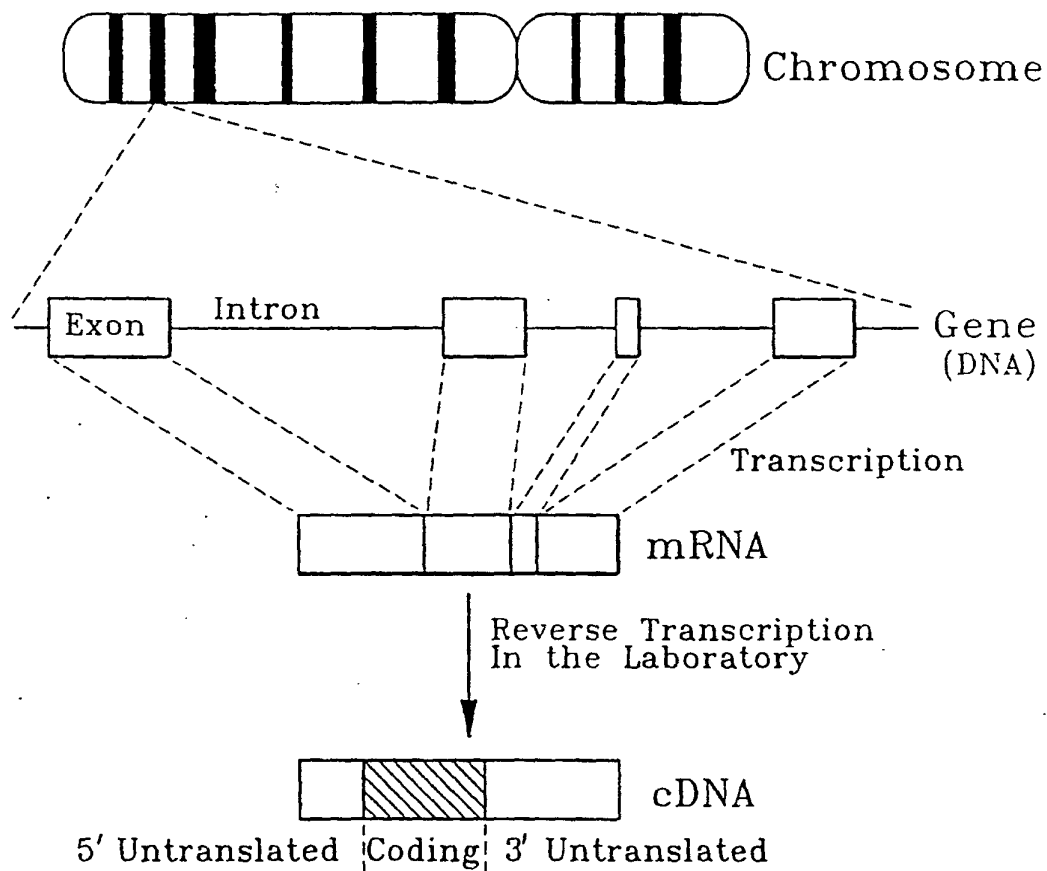
30. The polynucleotide of Claim 1, wherein said SEQ ID NO is 1704.

31. The polynucleotide of Claim 1, wherein said SEQ ID NO is 2089.

32. The polynucleotide of Claim 1, wherein said SEQ ID NO is 2297.

33. The polynucleotide of Claim 1, wherein said SEQ ID NO is 2302.

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*FIG. 1*

SUBSTITUTE SHEET

